

ANALYTICAL REPORT

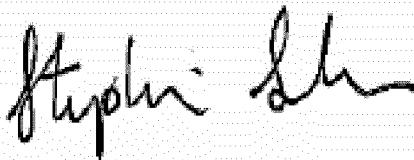
Job Number: 280-11648-1

Job Description: 995|Waimanalo Gulch LF

For:

Waste Management
Waimanalo Gulch Landfill
92-460 Farrington Highway
Kapolei, HI 96707

Attention: Mr. Justin Lottig



Approved for release.
Stephanie Sanders
Project Mgmt. Assistant
1/21/2011 4:22 PM

Designee for
Betsy A Sara
Project Manager II
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01/21/2011

cc: Mr. John Fong
Mr. Tobias Koehler

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Waste Management

Project: 995|Waimanalo Gulch LF

Report Number: 280-11648-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 01/17/2011; the samples arrived in good condition and properly preserved. The temperatures of the coolers at receipt were 9.2C, 9.7C, 7.9C, 7.7C and 8.1C. The cooler temperatures were above the recommended receiving temperature of 6.0C. The client was notified and the lab proceeded with all requested analyses.

Holding Times

All holding times were met.

Method Blanks

Total Sodium Method 200.7, Sulfate Method 300.0A and Total Phosphorus Method 365.1 were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

The Method 625 LCS for Indeno(1,2,3-cd)pyrene was above control limits. Because this is a non-target compound, no correction action was performed.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 625 and Method 1664A HEM due to insufficient sample volume; however, LCS/LCSD pairs were analyzed to demonstrate method precision and accuracy.

The percent recoveries and/or the relative percent difference of the MS/MSD performed on sample OCEAN OUTLET were outside control limits for Total Iron, Potassium, Magnesium and Sodium during Method 200.7 analysis because the sample concentrations were greater than four times the spike amounts.

The Matrix Spike and Matrix Spike Duplicate performed on sample OCEAN OUTLET exhibited recoveries outside control limits for Total Arsenic Method 200.7. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Total Arsenic and Selenium Method 200.7. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.

Metals

The Method 200.7 Continuing Calibration Verification (CCV) sample was above the control limits for Total Sodium. Because the data are

considered biased high and Total Sodium was not detected above the reporting limit in the associated Method Blank sample, corrective action was deemed unnecessary.

General Chemistry

Due to the sample matrix, the initial volume used for Total Suspended Solids (TSS) Method 2540D for samples CULVERT, UPCANYON, OCEAN WEST, OCEAN EAST and OCEAN OUTLET deviated from the standard procedure. The reporting limit (RL) has been adjusted proportionately.

General Comments

The analyses for Biochemical Oxygen Demand (BOD) and Hexavalent Chromium were performed at TestAmerica's Honolulu facility.
TestAmerica Honolulu
99-193 Aiea Heights Drive
Suite 121
Aiea, HI 96701
Phone: 808.486.5227

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID Analyte	Client Sample ID CULVERT	Result / Qualifier	Reporting Limit	Units	Method
Field pH	8.14			SU	Field Sampling
HEM	5.1		5.0	mg/L	1664A
Bromide	0.73		0.20	mg/L	300.0A
Chloride	95		1.3	mg/L	300.0A
Sulfate	45	B	5.0	mg/L	300.0A
Ammonia	0.11		0.10	mg/L	350.1
Nitrate Nitrite as N	2.9		0.10	mg/L	353.2
Phosphorus, Total	0.38	B	0.050	mg/L	365.1
Chemical Oxygen Demand	45		20	mg/L	410.4
Total Alkalinity	77		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity	77		5.0	mg/L	SM 2320B
Total Suspended Solids	57		4.0	mg/L	SM 2540D
Nitrogen, Total	4.8		0.10	mg/L	Total Nitrogen
<i>Total Recoverable</i>					
Iron	8.6		0.10	mg/L	200.7 Rev 4.4
Lead	0.0034	J	0.0090	mg/L	200.7 Rev 4.4
Selenium	0.0078	J	0.015	mg/L	200.7 Rev 4.4
Zinc	0.017	J	0.020	mg/L	200.7 Rev 4.4
Potassium	7.0		3.0	mg/L	200.7 Rev 4.4
Calcium	24		0.20	mg/L	200.7 Rev 4.4
Magnesium	13		0.20	mg/L	200.7 Rev 4.4
Sodium	73	B	5.0	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID Analyte	Client Sample ID Analyte	Result / Qualifier	Reporting Limit	Units	Method
280-11648-2	UPCANYON				
Field pH	8.46			SU	Field Sampling
HEM	3.7	J	5.0	mg/L	1664A
Bromide	0.16	J	0.20	mg/L	300.0A
Chloride	61		1.3	mg/L	300.0A
Sulfate	27	B	5.0	mg/L	300.0A
Ammonia	0.17		0.10	mg/L	350.1
Nitrate Nitrite as N	3.2		0.10	mg/L	353.2
Phosphorus, Total	0.58	B	0.050	mg/L	365.1
Chemical Oxygen Demand	29		20	mg/L	410.4
Total Alkalinity	31		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity	31		5.0	mg/L	SM 2320B
Total Suspended Solids	190		4.0	mg/L	SM 2540D
Nitrogen, Total	4.1		0.10	mg/L	Total Nitrogen
<i>Total Recoverable</i>					
Iron	41		0.10	mg/L	200.7 Rev 4.4
Zinc	0.058		0.020	mg/L	200.7 Rev 4.4
Potassium	6.1		3.0	mg/L	200.7 Rev 4.4
Calcium	11		0.20	mg/L	200.7 Rev 4.4
Magnesium	11		0.20	mg/L	200.7 Rev 4.4
Sodium	51	B	5.0	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID Analyte	Client Sample ID Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-11648-3 OCEAN WEST					
Field pH	7.92			SU	Field Sampling
HEM	3.5	J	5.0	mg/L	1664A
Bromide	67		2.3	mg/L	300.0A
Chloride	19000		130	mg/L	300.0A
Sulfate	2700	B	23	mg/L	300.0A
Ammonia	0.053	J	0.10	mg/L	350.1
Nitrate Nitrite as N	0.13		0.10	mg/L	353.2
Phosphorus, Total	0.22	B	0.050	mg/L	365.1
Chemical Oxygen Demand	450		20	mg/L	410.4
Total Alkalinity	120		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity	120		5.0	mg/L	SM 2320B
Total Suspended Solids	320		4.0	mg/L	SM 2540D
Nitrogen, Total	0.77		0.10	mg/L	Total Nitrogen
<i>Total Recoverable</i>					
Arsenic	0.0044	J	0.015	mg/L	200.7 Rev 4.4
Iron	18		0.10	mg/L	200.7 Rev 4.4
Lead	0.0058	J	0.0090	mg/L	200.7 Rev 4.4
Selenium	0.0064	J	0.015	mg/L	200.7 Rev 4.4
Zinc	0.047		0.020	mg/L	200.7 Rev 4.4
Potassium	470		3.0	mg/L	200.7 Rev 4.4
Calcium	370		0.20	mg/L	200.7 Rev 4.4
Magnesium	1100		0.20	mg/L	200.7 Rev 4.4
Sodium	10000	B	9.2	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID Analyte	Client Sample ID Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-11648-4	OCEAN EAST					
Mercury		0.000033	J	0.00020	mg/L	245.1
Field pH		8.06			SU	Field Sampling
HEM		4.0	J	5.0	mg/L	1664A
Bromide		67		2.3	mg/L	300.0A
Chloride		19000		130	mg/L	300.0A
Sulfate		2800	B	23	mg/L	300.0A
Ammonia		0.074	J	0.10	mg/L	350.1
Nitrate Nitrite as N		0.17		0.10	mg/L	353.2
Phosphorus, Total		0.34	B	0.050	mg/L	365.1
Chemical Oxygen Demand		410		20	mg/L	410.4
Total Alkalinity		120		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		120		5.0	mg/L	SM 2320B
Total Suspended Solids		340		4.0	mg/L	SM 2540D
Nitrogen, Total		0.41		0.10	mg/L	Total Nitrogen
<i>Total Recoverable</i>						
Iron		20		0.10	mg/L	200.7 Rev 4.4
Lead		0.0057	J	0.0090	mg/L	200.7 Rev 4.4
Zinc		0.049		0.020	mg/L	200.7 Rev 4.4
Potassium		480		3.0	mg/L	200.7 Rev 4.4
Calcium		370		0.20	mg/L	200.7 Rev 4.4
Magnesium		1100		0.20	mg/L	200.7 Rev 4.4
Sodium		11000	B	9.2	mg/L	200.7 Rev 4.4

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID Analyte	Client Sample ID Analyte	Result / Qualifier	Reporting Limit	Units	Method
280-11648-5	OCEAN OUTLET				
Field pH	8.13			SU	Field Sampling
HEM	4.5	J	5.0	mg/L	1664A
Bromide	32		1.1	mg/L	300.0A
Chloride	9600		51	mg/L	300.0A
Sulfate	1300	B	12	mg/L	300.0A
Ammonia	0.055	J	0.10	mg/L	350.1
Nitrate Nitrite as N	1.9		0.10	mg/L	353.2
Phosphorus, Total	0.33	B	0.050	mg/L	365.1
Chemical Oxygen Demand	160		20	mg/L	410.4
Total Alkalinity	110		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity	110		5.0	mg/L	SM 2320B
Total Suspended Solids	320		4.0	mg/L	SM 2540D
Nitrogen, Total	2.8		0.10	mg/L	Total Nitrogen
<i>Total Recoverable</i>					
Iron	14		0.10	mg/L	200.7 Rev 4.4
Lead	0.0061	J	0.0090	mg/L	200.7 Rev 4.4
Zinc	0.037		0.020	mg/L	200.7 Rev 4.4
Potassium	200		3.0	mg/L	200.7 Rev 4.4
Calcium	190		0.20	mg/L	200.7 Rev 4.4
Magnesium	510		0.20	mg/L	200.7 Rev 4.4
Sodium	5000	B	5.0	mg/L	200.7 Rev 4.4

METHOD SUMMARY

Client: Waste Management

Job Number: 280-11648-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Organic Compounds (GC/MS) Liquid-Liquid Extraction	TAL DEN TAL DEN	40CFR136A 625 40CFR136A 625	
Metals (ICP) Preparation, Total Recoverable Metals	TAL DEN TAL DEN	EPA 200.7 Rev 4.4 EPA 200.7	
Mercury (CVAA) Preparation, Mercury	TAL DEN TAL DEN	EPA 245.1 EPA 245.1	
HEM and SGT-HEM HEM and SGT-HEM (SPE)	TAL DEN TAL DEN	1664A 1664A 1664A 1664A	
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0A	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Phosphorus, Total Phosphorus, Total	TAL DEN TAL DEN	EPA 365.1 MCAWW 365.2/365.3/365	
COD	TAL DEN	MCAWW 410.4	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Nitrogen, Total	TAL DEN	EPA Total Nitrogen	
Field Sampling	TAL DEN	EPA Field Sampling	
General Sub Contract Method	TAL HON	Subcontract	

Lab References:

TAL DEN = TestAmerica Denver

TAL HON = TestAmerica Honolulu

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-11648-1

Method	Analyst	Analyst ID
40CFR136A 625	Hoffman, Michael G	MGH
EPA 200.7 Rev 4.4	Bowen, Heidi E	HEB
EPA 245.1	Stoltz, Katie	KS
EPA Field Sampling	Field, Sampler	FS
1664A 1664A	Gheorghe, Philip A	PAG
MCAWW 300.0A	Phan, Thu L	TLP
MCAWW 350.1	Stosak, Lara E	LES
MCAWW 353.2	Stosak, Lara E	LES
EPA 365.1	Scott, Samantha J	SJS
MCAWW 410.4	Derosia, Marcia R	MRD
SM SM 2320B	Derosia, Marcia R	MRD
SM SM 2540D	Gheorghe, Philip A	PAG
EPA Total Nitrogen	Sullivan, Roxanne	RS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-11648-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-11648-1	CULVERT	Water	01/13/2011 1915	01/17/2011 0830
280-11648-2	UPCANYON	Water	01/13/2011 1750	01/17/2011 0830
280-11648-3	OCEAN WEST	Water	01/13/2011 1745	01/17/2011 0830
280-11648-4	OCEAN EAST	Water	01/13/2011 1800	01/17/2011 0830
280-11648-5	OCEAN OUTLET	Water	01/13/2011 1815	01/17/2011 0830

SAMPLE RESULTS

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: CULVERT

Lab Sample ID: 280-11648-1

Date Sampled: 01/13/2011 1915

Client Matrix: Water

Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865	Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365	Lab File ID:	D1503.D
Dilution:	1.0		Initial Weight/Volume:	953.6 mL
Date Analyzed:	01/21/2011 0049		Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0021	0.010
Benzoic acid	ND		0.010	0.050
p-Cresol	ND		0.00026	0.010
Pentachlorophenol	ND		0.021	0.060
Phenol	ND		0.0021	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	94		36 - 120
2-Fluorophenol	89		30 - 120
2,4,6-Tribromophenol	93		50 - 120
Nitrobenzene-d5	105		45 - 120
Phenol-d5	92		36 - 120
Terphenyl-d14	86		52 - 120

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: UPCANYON

Lab Sample ID: 280-11648-2

Date Sampled: 01/13/2011 1750

Client Matrix: Water

Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865	Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365	Lab File ID:	D1504.D
Dilution:	1.0		Initial Weight/Volume:	1057.4 mL
Date Analyzed:	01/21/2011 0108		Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0019	0.010
Benzoic acid	ND		0.0095	0.050
p-Cresol	ND		0.00024	0.010
Pentachlorophenol	ND		0.019	0.060
Phenol	ND		0.0019	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	90		36 - 120
2-Fluorophenol	85		30 - 120
2,4,6-Tribromophenol	91		50 - 120
Nitrobenzene-d5	91		45 - 120
Phenol-d5	89		36 - 120
Terphenyl-d14	108		52 - 120

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: OCEAN WEST

Lab Sample ID: 280-11648-3

Date Sampled: 01/13/2011 1745

Client Matrix: Water

Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865	Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365	Lab File ID:	D1505.D
Dilution:	1.0		Initial Weight/Volume:	1011.1 mL
Date Analyzed:	01/21/2011 0128		Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0020	0.010
Benzoic acid	ND		0.0099	0.050
p-Cresol	ND		0.00025	0.010
Pentachlorophenol	ND		0.020	0.060
Phenol	ND		0.0020	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		36 - 120
2-Fluorophenol	88		30 - 120
2,4,6-Tribromophenol	84		50 - 120
Nitrobenzene-d5	92		45 - 120
Phenol-d5	90		36 - 120
Terphenyl-d14	93		52 - 120

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: OCEAN EAST

Lab Sample ID: 280-11648-4

Date Sampled: 01/13/2011 1800

Client Matrix: Water

Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865	Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365	Lab File ID:	D1506.D
Dilution:	1.0		Initial Weight/Volume:	975.1 uL
Date Analyzed:	01/21/2011 0147		Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0021	0.010
Benzoic acid	ND		0.010	0.050
p-Cresol	ND		0.00026	0.010
Pentachlorophenol	ND		0.021	0.060
Phenol	ND		0.0021	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	101		36 - 120
2-Fluorophenol	101		30 - 120
2,4,6-Tribromophenol	99		50 - 120
Nitrobenzene-d5	109		45 - 120
Phenol-d5	105		36 - 120
Terphenyl-d14	90		52 - 120

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: OCEAN OUTLET

Lab Sample ID: 280-11648-5

Date Sampled: 01/13/2011 1815

Client Matrix: Water

Date Received: 01/17/2011 0830

625 Semivolatile Organic Compounds (GC/MS)

Method:	625	Analysis Batch: 280-49865	Instrument ID:	MSS_D
Preparation:	625	Prep Batch: 280-49365	Lab File ID:	D1507.D
Dilution:	1.0		Initial Weight/Volume:	859.8 uL
Date Analyzed:	01/21/2011 0207		Final Weight/Volume:	1000 uL
Date Prepared:	01/17/2011 1831		Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0023	0.010
Benzoic acid	ND		0.012	0.050
p-Cresol	ND		0.00029	0.010
Pentachlorophenol	ND		0.023	0.060
Phenol	ND		0.0023	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	94		36 - 120
2-Fluorophenol	95		30 - 120
2,4,6-Tribromophenol	97		50 - 120
Nitrobenzene-d5	97		45 - 120
Phenol-d5	98		36 - 120
Terphenyl-d14	90		52 - 120

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: CULVERT

Lab Sample ID: 280-11648-1

Date Sampled: 01/13/2011 1915

Client Matrix: Water

Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch:	280-49542	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch:	280-49321	Lab File ID:	26a011811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2014			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	8.6		0.022	0.10
Lead	0.0034	J	0.0026	0.0090
Selenium	0.0078	J	0.0049	0.015
Zinc	0.017	J	0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	7.0		0.24	3.0
Calcium	24		0.034	0.20
Magnesium	13		0.011	0.20
Sodium	73	B	0.092	5.0

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch:	280-49379	Instrument ID:	MT_033
Preparation:	245.1	Prep Batch:	280-49281	Lab File ID:	110117AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1608			Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: UPCANYON

Lab Sample ID: 280-11648-2

Date Sampled: 01/13/2011 1750

Client Matrix: Water

Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321	Lab File ID:	26a011811.asc
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2017		Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	41		0.022	0.10
Lead	ND		0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	0.058		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	6.1		0.24	3.0
Calcium	11		0.034	0.20
Magnesium	11		0.011	0.20
Sodium	51	B	0.092	5.0

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379	Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281	Lab File ID:	110117AB.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1611		Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: OCEAN WEST

Lab Sample ID: 280-11648-3

Date Sampled: 01/13/2011 1745

Client Matrix: Water

Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321	Lab File ID:	26a011811.asc
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 1919		Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0044	J	0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	18		0.022	0.10
Lead	0.0058	J	0.0026	0.0090
Selenium	0.0064	J	0.0049	0.015
Zinc	0.047		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	470		0.24	3.0
Calcium	370		0.034	0.20
Magnesium	1100		0.011	0.20

Method:	200.7 Rev 4.4	Analysis Batch: 280-49660	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321	Lab File ID:	26a011911.asc
Dilution:	100		Initial Weight/Volume:	50 mL
Date Analyzed:	01/19/2011 1918		Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	10000	B	9.2	9.2

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379	Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281	Lab File ID:	110117AB.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1613		Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: OCEAN EAST

Lab Sample ID: 280-11648-4

Date Sampled: 01/13/2011 1800

Client Matrix: Water

Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch: 280-49542	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321	Lab File ID:	26a011811.asc
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2022		Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	20		0.022	0.10
Lead	0.0057	J	0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	0.049		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	480		0.24	3.0
Calcium	370		0.034	0.20
Magnesium	1100		0.011	0.20

Method:	200.7 Rev 4.4	Analysis Batch: 280-49660	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch: 280-49321	Lab File ID:	26a011911.asc
Dilution:	100		Initial Weight/Volume:	50 mL
Date Analyzed:	01/19/2011 1920		Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	11000	B	9.2	9.2

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch: 280-49379	Instrument ID:	MT_033
Preparation:	245.1	Prep Batch: 280-49281	Lab File ID:	110117AB.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1620		Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.000033	J	0.000027	0.00020

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Client Sample ID: OCEAN OUTLET

Lab Sample ID: 280-11648-5

Date Sampled: 01/13/2011 1815

Client Matrix: Water

Date Received: 01/17/2011 0830

200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch:	280-49542	Instrument ID:	MT_026
Preparation:	200.7	Prep Batch:	280-49321	Lab File ID:	26a011811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	01/18/2011 2026			Final Weight/Volume:	50 mL
Date Prepared:	01/17/2011 1427				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	14		0.022	0.10
Lead	0.0061	J	0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	0.037		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	200		0.24	3.0
Calcium	190		0.034	0.20
Magnesium	510		0.011	0.20
Sodium	5000	B	0.092	5.0

245.1 Mercury (CVAA)

Method:	245.1	Analysis Batch:	280-49379	Instrument ID:	MT_033
Preparation:	245.1	Prep Batch:	280-49281	Lab File ID:	110117AB.txt
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	01/17/2011 1622			Final Weight/Volume:	10 mL
Date Prepared:	01/17/2011 1155				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.000027	0.00020

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

General Chemistry

Client Sample ID: CULVERT

Lab Sample ID: 280-11648-1

Date Sampled: 01/13/2011 1915

Client Matrix: Water

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	5.1		mg/L	1.3	5.0	1.0	1664A
	Analysis Batch: 280-49297		Date Analyzed:	01/17/2011 1223			
	Prep Batch: 280-49286		Date Prepared:	01/17/2011 1146			
Bromide	0.73		mg/L	0.11	0.20	1.0	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/17/2011 1910			
Chloride	95		mg/L	1.3	1.3	5.0	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/18/2011 1105			
Sulfate	45	B	mg/L	0.23	5.0	1.0	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/17/2011 1910			
Ammonia	0.11		mg/L	0.022	0.10	1.0	350.1
	Analysis Batch: 280-49479		Date Analyzed:	01/18/2011 1452			
Nitrate Nitrite as N	2.9		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-49480		Date Analyzed:	01/18/2011 1425			
Phosphorus, Total	0.38	B	mg/L	0.0050	0.050	1.0	365.1
	Analysis Batch: 280-49895		Date Analyzed:	01/21/2011 0856			
	Prep Batch: 280-49680		Date Prepared:	01/20/2011 0938			
Chemical Oxygen Demand	45		mg/L	4.1	20	1.0	410.4
	Analysis Batch: 280-49821		Date Analyzed:	01/19/2011 1737			
Total Alkalinity	77		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2027			
Bicarbonate Alkalinity	77		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2027			
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2027			
Total Suspended Solids	57		mg/L	2.8	4.0	1.0	SM 2540D
	Analysis Batch: 280-49449		Date Analyzed:	01/18/2011 1349			
Nitrogen, Total	4.8		mg/L	0.042	0.10	1.0	Total Nitrogen
	Analysis Batch: 280-49935		Date Analyzed:	01/21/2011 1207			

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

General ChemistryClient Sample ID: **UPCANYON**Lab Sample ID: **280-11648-2**Client Matrix: **Water**

Date Sampled: 01/13/2011 1750

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	3.7	J	mg/L	1.3	5.0	1.0	1664A
	Analysis Batch: 280-49297		Date Analyzed:	01/17/2011 1223			
	Prep Batch: 280-49286		Date Prepared:	01/17/2011 1146			
Bromide	0.16	J	mg/L	0.11	0.20	1.0	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/17/2011 1927			
Chloride	61		mg/L	1.3	1.3	5.0	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/18/2011 1122			
Sulfate	27	B	mg/L	0.23	5.0	1.0	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/17/2011 1927			
Ammonia	0.17		mg/L	0.022	0.10	1.0	350.1
	Analysis Batch: 280-49479		Date Analyzed:	01/18/2011 1453			
Nitrate Nitrite as N	3.2		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-49480		Date Analyzed:	01/18/2011 1426			
Phosphorus, Total	0.58	B	mg/L	0.0050	0.050	1.0	365.1
	Analysis Batch: 280-49895		Date Analyzed:	01/21/2011 0856			
	Prep Batch: 280-49680		Date Prepared:	01/20/2011 0938			
Chemical Oxygen Demand	29		mg/L	4.1	20	1.0	410.4
	Analysis Batch: 280-49489		Date Analyzed:	01/18/2011 1729			
Total Alkalinity	31		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2034			
Bicarbonate Alkalinity	31		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2034			
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2034			
Total Suspended Solids	190		mg/L	2.8	4.0	1.0	SM 2540D
	Analysis Batch: 280-49449		Date Analyzed:	01/18/2011 1349			
Nitrogen, Total	4.1		mg/L	0.042	0.10	1.0	Total Nitrogen
	Analysis Batch: 280-49935		Date Analyzed:	01/21/2011 1207			

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

General Chemistry

Client Sample ID:	OCEAN WEST	Lab Sample ID:	280-11648-3	Date Sampled:	01/13/2011 1745		
Client Matrix:	Water			Date Received:	01/17/2011 0830		
Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	3.5	J	mg/L	1.3	5.0	1.0	1664A
	Analysis Batch: 280-49297		Date Analyzed:	01/17/2011 1223			
	Prep Batch: 280-49286		Date Prepared:	01/17/2011 1146			
Bromide	67		mg/L	2.3	2.3	20	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/17/2011 1945			
Chloride	19000		mg/L	130	130	500	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/18/2011 1157			
Sulfate	2700	B	mg/L	23	23	100	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/18/2011 1140			
Ammonia	0.053	J	mg/L	0.022	0.10	1.0	350.1
	Analysis Batch: 280-49479		Date Analyzed:	01/18/2011 1447			
Nitrate Nitrite as N	0.13		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-49480		Date Analyzed:	01/18/2011 1428			
Phosphorus, Total	0.22	B	mg/L	0.0050	0.050	1.0	365.1
	Analysis Batch: 280-49895		Date Analyzed:	01/21/2011 0856			
	Prep Batch: 280-49680		Date Prepared:	01/20/2011 0938			
Chemical Oxygen Demand	450		mg/L	20	20	5.0	410.4
	Analysis Batch: 280-49821		Date Analyzed:	01/19/2011 1737			
Total Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2058			
Bicarbonate Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2058			
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2058			
Total Suspended Solids	320		mg/L	3.7	4.0	1.0	SM 2540D
	Analysis Batch: 280-49449		Date Analyzed:	01/18/2011 1349			
Nitrogen, Total	0.77		mg/L	0.042	0.10	1.0	Total Nitrogen
	Analysis Batch: 280-49935		Date Analyzed:	01/21/2011 1207			

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

General Chemistry

Client Sample ID:	OCEAN EAST						
Lab Sample ID:	280-11648-4	Date Sampled: 01/13/2011 1800					
Client Matrix:	Water	Date Received: 01/17/2011 0830					
Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	4.0	J	mg/L	1.6	5.0	1.0	1664A
	Analysis Batch: 280-49297		Date Analyzed: 01/17/2011 1223				
	Prep Batch: 280-49286		Date Prepared: 01/17/2011 1146				
Bromide	67		mg/L	2.3	2.3	20	300.0A
	Analysis Batch: 280-49632		Date Analyzed: 01/17/2011 2002				
Chloride	19000		mg/L	130	130	500	300.0A
	Analysis Batch: 280-49632		Date Analyzed: 01/18/2011 1231				
Sulfate	2800	B	mg/L	23	23	100	300.0A
	Analysis Batch: 280-49632		Date Analyzed: 01/18/2011 1214				
Ammonia	0.074	J	mg/L	0.022	0.10	1.0	350.1
	Analysis Batch: 280-49479		Date Analyzed: 01/18/2011 1455				
Nitrate Nitrite as N	0.17		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-49480		Date Analyzed: 01/18/2011 1429				
Phosphorus, Total	0.34	B	mg/L	0.0050	0.050	1.0	365.1
	Analysis Batch: 280-49895		Date Analyzed: 01/21/2011 0856				
	Prep Batch: 280-49680		Date Prepared: 01/20/2011 0938				
Chemical Oxygen Demand	410		mg/L	20	20	5.0	410.4
	Analysis Batch: 280-49821		Date Analyzed: 01/19/2011 1737				
Total Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed: 01/17/2011 2106				
Bicarbonate Alkalinity	120		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed: 01/17/2011 2106				
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed: 01/17/2011 2106				
Total Suspended Solids	340		mg/L	3.7	4.0	1.0	SM 2540D
	Analysis Batch: 280-49449		Date Analyzed: 01/18/2011 1349				
Nitrogen, Total	0.41		mg/L	0.042	0.10	1.0	Total Nitrogen
	Analysis Batch: 280-49935		Date Analyzed: 01/21/2011 1207				

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

General Chemistry

Client Sample ID: OCEAN OUTLET

Lab Sample ID: 280-11648-5

Date Sampled: 01/13/2011 1815

Client Matrix: Water

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	4.5	J	mg/L	1.3	5.0	1.0	1664A
	Analysis Batch: 280-49297		Date Analyzed:	01/17/2011 1223			
	Prep Batch: 280-49286		Date Prepared:	01/17/2011 1146			
Bromide	32		mg/L	1.1	1.1	10	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/17/2011 2019			
Chloride	9600		mg/L	51	51	200	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/18/2011 1306			
Sulfate	1300	B	mg/L	12	12	50	300.0A
	Analysis Batch: 280-49632		Date Analyzed:	01/18/2011 1249			
Ammonia	0.055	J	mg/L	0.022	0.10	1.0	350.1
	Analysis Batch: 280-49479		Date Analyzed:	01/18/2011 1505			
Nitrate Nitrite as N	1.9		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-49480		Date Analyzed:	01/18/2011 1431			
Phosphorus, Total	0.33	B	mg/L	0.0050	0.050	1.0	365.1
	Analysis Batch: 280-49895		Date Analyzed:	01/21/2011 0856			
	Prep Batch: 280-49680		Date Prepared:	01/20/2011 0938			
Chemical Oxygen Demand	160		mg/L	8.1	20	2.0	410.4
	Analysis Batch: 280-49489		Date Analyzed:	01/18/2011 1729			
Total Alkalinity	110		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2114			
Bicarbonate Alkalinity	110		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2114			
Carbonate Alkalinity	ND		mg/L	1.1	5.0	1.0	SM 2320B
	Analysis Batch: 280-49444		Date Analyzed:	01/17/2011 2114			
Total Suspended Solids	320		mg/L	3.7	4.0	1.0	SM 2540D
	Analysis Batch: 280-49449		Date Analyzed:	01/18/2011 1349			
Nitrogen, Total	2.8		mg/L	0.042	0.10	1.0	Total Nitrogen
	Analysis Batch: 280-49935		Date Analyzed:	01/21/2011 1207			

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Field Service / Mobile Lab

Client Sample ID: CULVERT

Lab Sample ID: 280-11648-1

Client Matrix: Water

Date Sampled: 01/13/2011 1915

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Field pH	8.14		SU	1.0	Field Sampling	280-49270	01/13/2011 1915	

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Field Service / Mobile LabClient Sample ID: **UPCANYON**Lab Sample ID: **280-11648-2**Client Matrix: **Water**

Date Sampled: 01/13/2011 1750

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Field pH	8.46		SU	1.0	Field Sampling	280-49270	01/13/2011 1750	

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Field Service / Mobile Lab

Client Sample ID: OCEAN WEST

Lab Sample ID: 280-11648-3

Client Matrix: Water

Date Sampled: 01/13/2011 1745

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Field pH	7.92		SU	1.0	Field Sampling	280-49270	01/13/2011 1745	

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Field Service / Mobile Lab

Client Sample ID: OCEAN EAST

Lab Sample ID: 280-11648-4

Client Matrix: Water

Date Sampled: 01/13/2011 1800

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Field pH	8.06		SU	1.0	Field Sampling	280-49270	01/13/2011 1800	

Analytical Data

Client: Waste Management

Job Number: 280-11648-1

Field Service / Mobile Lab

Client Sample ID: OCEAN OUTLET

Lab Sample ID: 280-11648-5

Client Matrix: Water

Date Sampled: 01/13/2011 1815

Date Received: 01/17/2011 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Field pH	8.13		SU	1.0	Field Sampling	280-49270	01/13/2011 1815	

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-11648-1

Lab Section	Qualifier	Description
GC/MS Semi VOA	*	Recovery or RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	^	Instrument related QC exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	F	MS/MSD Recovery or RPD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID		Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA						
Prep Batch: 280-49365						
LCS 280-49365/2-A	Lab Control Sample	T	Water	625		
LCSD 280-49365/3-A	Lab Control Sample Duplicate	T	Water	625		
MB 280-49365/1-A	Method Blank	T	Water	625		
280-11648-1	CULVERT	T	Water	625		
280-11648-2	UPCANYON	T	Water	625		
280-11648-3	OCEAN WEST	T	Water	625		
280-11648-4	OCEAN EAST	T	Water	625		
280-11648-5	OCEAN OUTLET	T	Water	625		
Analysis Batch: 280-49365						
LCS 280-49365/2-A	Lab Control Sample	T	Water	625	280-49365	
LCSD 280-49365/3-A	Lab Control Sample Duplicate	T	Water	625	280-49365	
MB 280-49365/1-A	Method Blank	T	Water	625	280-49365	
280-11648-1	CULVERT	T	Water	625	280-49365	
280-11648-2	UPCANYON	T	Water	625	280-49365	
280-11648-3	OCEAN WEST	T	Water	625	280-49365	
280-11648-4	OCEAN EAST	T	Water	625	280-49365	
280-11648-5	OCEAN OUTLET	T	Water	625	280-49365	

Report Basis

T = Total

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-49281					
LCS 280-49281/2-A	Lab Control Sample	T	Water	245.1	
MB 280-49281/1-A	Method Blank	T	Water	245.1	
280-11648-1	CULVERT	T	Water	245.1	
280-11648-2	UPCANYON	T	Water	245.1	
280-11648-3	OCEAN WEST	T	Water	245.1	
280-11648-3MS	Matrix Spike	T	Water	245.1	
280-11648-3MSD	Matrix Spike Duplicate	T	Water	245.1	
280-11648-4	OCEAN EAST	T	Water	245.1	
280-11648-5	OCEAN OUTLET	T	Water	245.1	
Prep Batch: 280-49321					
LCS 280-49321/2-A	Lab Control Sample	R	Water	200.7	
MB 280-49321/1-A	Method Blank	R	Water	200.7	
280-11644-C-7-B MS	Matrix Spike	R	Water	200.7	
280-11644-C-7-C MSD	Matrix Spike Duplicate	R	Water	200.7	
280-11648-1	CULVERT	R	Water	200.7	
280-11648-2	UPCANYON	R	Water	200.7	
280-11648-3	OCEAN WEST	R	Water	200.7	
280-11648-4	OCEAN EAST	R	Water	200.7	
280-11648-5	OCEAN OUTLET	R	Water	200.7	
280-11648-5MS	Matrix Spike	R	Water	200.7	
280-11648-5MSD	Matrix Spike Duplicate	R	Water	200.7	
Analysis Batch: 280-49379					
LCS 280-49281/2-A	Lab Control Sample	T	Water	245.1	280-49281
MB 280-49281/1-A	Method Blank	T	Water	245.1	280-49281
280-11648-1	CULVERT	T	Water	245.1	280-49281
280-11648-2	UPCANYON	T	Water	245.1	280-49281
280-11648-3	OCEAN WEST	T	Water	245.1	280-49281
280-11648-3MS	Matrix Spike	T	Water	245.1	280-49281
280-11648-3MSD	Matrix Spike Duplicate	T	Water	245.1	280-49281
280-11648-4	OCEAN EAST	T	Water	245.1	280-49281
280-11648-5	OCEAN OUTLET	T	Water	245.1	280-49281

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-49542					
LCS 280-49321/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-49321
MB 280-49321/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-49321
280-11644-C-7-B MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-49321
280-11644-C-7-C MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-49321
280-11648-1	CULVERT	R	Water	200.7 Rev 4.4	280-49321
280-11648-2	UPCANYON	R	Water	200.7 Rev 4.4	280-49321
280-11648-3	OCEAN WEST	R	Water	200.7 Rev 4.4	280-49321
280-11648-4	OCEAN EAST	R	Water	200.7 Rev 4.4	280-49321
280-11648-5	OCEAN OUTLET	R	Water	200.7 Rev 4.4	280-49321
280-11648-5MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-49321
280-11648-5MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-49321
Analysis Batch:280-49660					
280-11648-3	OCEAN WEST	R	Water	200.7 Rev 4.4	280-49321
280-11648-4	OCEAN EAST	R	Water	200.7 Rev 4.4	280-49321

Report Basis

R = Total Recoverable

T = Total

Field Service / Mobile Lab

Analysis Batch:280-49270					
280-11648-1	CULVERT	T	Water	Field Sampling	
280-11648-2	UPCANYON	T	Water	Field Sampling	
280-11648-3	OCEAN WEST	T	Water	Field Sampling	
280-11648-4	OCEAN EAST	T	Water	Field Sampling	
280-11648-5	OCEAN OUTLET	T	Water	Field Sampling	

Report Basis

T = Total

TestAmerica Denver

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-49286					
LCS 280-49286/2-A	Lab Control Sample	T	Water	1664A	
LCSD 280-49286/3-A	Lab Control Sample Duplicate	T	Water	1664A	
MB 280-49286/1-A	Method Blank	T	Water	1664A	
280-11648-1	CULVERT	T	Water	1664A	
280-11648-2	UPCANYON	T	Water	1664A	
280-11648-3	OCEAN WEST	T	Water	1664A	
280-11648-4	OCEAN EAST	T	Water	1664A	
280-11648-5	OCEAN OUTLET	T	Water	1664A	
Analysis Batch:280-49297					
LCS 280-49286/2-A	Lab Control Sample	T	Water	1664A	280-49286
LCSD 280-49286/3-A	Lab Control Sample Duplicate	T	Water	1664A	280-49286
MB 280-49286/1-A	Method Blank	T	Water	1664A	280-49286
280-11648-1	CULVERT	T	Water	1664A	280-49286
280-11648-2	UPCANYON	T	Water	1664A	280-49286
280-11648-3	OCEAN WEST	T	Water	1664A	280-49286
280-11648-4	OCEAN EAST	T	Water	1664A	280-49286
280-11648-5	OCEAN OUTLET	T	Water	1664A	280-49286
Analysis Batch:280-49444					
LCS 280-49444/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-49444/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-49444/6	Method Blank	T	Water	SM 2320B	
280-11644-A-1 DU	Duplicate	T	Water	SM 2320B	
280-11648-1	CULVERT	T	Water	SM 2320B	
280-11648-2	UPCANYON	T	Water	SM 2320B	
280-11648-3	OCEAN WEST	T	Water	SM 2320B	
280-11648-4	OCEAN EAST	T	Water	SM 2320B	
280-11648-5	OCEAN OUTLET	T	Water	SM 2320B	
Analysis Batch:280-49449					
LCS 280-49449/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-49449/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-49449/1	Method Blank	T	Water	SM 2540D	
280-11616-C-1 DU	Duplicate	T	Water	SM 2540D	
280-11648-1	CULVERT	T	Water	SM 2540D	
280-11648-2	UPCANYON	T	Water	SM 2540D	
280-11648-3	OCEAN WEST	T	Water	SM 2540D	
280-11648-4	OCEAN EAST	T	Water	SM 2540D	
280-11648-5	OCEAN OUTLET	T	Water	SM 2540D	

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID		Report Basis	Client Matrix	Method	Prep Batch
General Chemistry						
Analysis Batch:280-49479						
LCS 280-49479/69	Lab Control Sample	T	Water	350.1		
LCSD 280-49479/70	Lab Control Sample Duplicate	T	Water	350.1		
MB 280-49479/68	Method Blank	T	Water	350.1		
280-11648-1	CULVERT	T	Water	350.1		
280-11648-2	UPCANYON	T	Water	350.1		
280-11648-3	OCEAN WEST	T	Water	350.1		
280-11648-3MS	Matrix Spike	T	Water	350.1		
280-11648-3MSD	Matrix Spike Duplicate	T	Water	350.1		
280-11648-4	OCEAN EAST	T	Water	350.1		
280-11648-5	OCEAN OUTLET	T	Water	350.1		
Analysis Batch:280-49480						
LCS 280-49480/25	Lab Control Sample	T	Water	353.2		
LCSD 280-49480/26	Lab Control Sample Duplicate	T	Water	353.2		
MB 280-49480/24	Method Blank	T	Water	353.2		
280-11561-E-7 MS	Matrix Spike	T	Water	353.2		
280-11561-E-7 MSD	Matrix Spike Duplicate	T	Water	353.2		
280-11648-1	CULVERT	T	Water	353.2		
280-11648-2	UPCANYON	T	Water	353.2		
280-11648-3	OCEAN WEST	T	Water	353.2		
280-11648-4	OCEAN EAST	T	Water	353.2		
280-11648-5	OCEAN OUTLET	T	Water	353.2		
Analysis Batch:280-49489						
LCS 280-49489/3	Lab Control Sample	T	Water	410.4		
LCSD 280-49489/4	Lab Control Sample Duplicate	T	Water	410.4		
MB 280-49489/5	Method Blank	T	Water	410.4		
280-11648-2	UPCANYON	T	Water	410.4		
280-11648-2MS	Matrix Spike	T	Water	410.4		
280-11648-2MSD	Matrix Spike Duplicate	T	Water	410.4		
280-11648-5	OCEAN OUTLET	T	Water	410.4		
Analysis Batch:280-49632						
LCS 280-49632/4	Lab Control Sample	T	Water	300.0A		
LCSD 280-49632/5	Lab Control Sample Duplicate	T	Water	300.0A		
MB 280-49632/6	Method Blank	T	Water	300.0A		
280-11561-A-5 DU	Duplicate	T	Water	300.0A		
280-11561-A-5 MS	Matrix Spike	T	Water	300.0A		
280-11561-A-5 MSD	Matrix Spike Duplicate	T	Water	300.0A		
280-11648-1	CULVERT	T	Water	300.0A		
280-11648-2	UPCANYON	T	Water	300.0A		
280-11648-3	OCEAN WEST	T	Water	300.0A		
280-11648-4	OCEAN EAST	T	Water	300.0A		
280-11648-5	OCEAN OUTLET	T	Water	300.0A		

TestAmerica Denver

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

QC Association Summary

Lab Sample ID	Client Sample ID		Report Basis	Client Matrix	Method	Prep Batch
General Chemistry						
Prep Batch: 280-49680						
LCS 280-49680/1-A	Lab Control Sample	T	Water	365.2/365.3/365		
LCSD 280-49680/2-A	Lab Control Sample Duplicate	T	Water	365.2/365.3/365		
MB 280-49680/3-A	Method Blank	T	Water	365.2/365.3/365		
280-11648-1	CULVERT	T	Water	365.2/365.3/365		
280-11648-2	UPCANYON	T	Water	365.2/365.3/365		
280-11648-3	OCEAN WEST	T	Water	365.2/365.3/365		
280-11648-4	OCEAN EAST	T	Water	365.2/365.3/365		
280-11648-5	OCEAN OUTLET	T	Water	365.2/365.3/365		
280-11648-5MS	Matrix Spike	T	Water	365.2/365.3/365		
280-11648-5MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365		
Analysis Batch:280-49821						
LCS 280-49821/3	Lab Control Sample	T	Water	410.4		
LCSD 280-49821/4	Lab Control Sample Duplicate	T	Water	410.4		
MB 280-49821/5	Method Blank	T	Water	410.4		
280-11648-1	CULVERT	T	Water	410.4		
280-11648-1MS	Matrix Spike	T	Water	410.4		
280-11648-1MSD	Matrix Spike Duplicate	T	Water	410.4		
280-11648-3	OCEAN WEST	T	Water	410.4		
280-11648-4	OCEAN EAST	T	Water	410.4		
Analysis Batch:280-49895						
LCS 280-49680/1-A	Lab Control Sample	T	Water	365.1	280-49680	
LCSD 280-49680/2-A	Lab Control Sample Duplicate	T	Water	365.1	280-49680	
MB 280-49680/3-A	Method Blank	T	Water	365.1	280-49680	
280-11648-1	CULVERT	T	Water	365.1	280-49680	
280-11648-2	UPCANYON	T	Water	365.1	280-49680	
280-11648-3	OCEAN WEST	T	Water	365.1	280-49680	
280-11648-4	OCEAN EAST	T	Water	365.1	280-49680	
280-11648-5	OCEAN OUTLET	T	Water	365.1	280-49680	
280-11648-5MS	Matrix Spike	T	Water	365.1	280-49680	
280-11648-5MSD	Matrix Spike Duplicate	T	Water	365.1	280-49680	
Analysis Batch:280-49935						
MB 280-49935/1	Method Blank	T	Water	Total Nitrogen		
280-11648-1	CULVERT	T	Water	Total Nitrogen		
280-11648-2	UPCANYON	T	Water	Total Nitrogen		
280-11648-3	OCEAN WEST	T	Water	Total Nitrogen		
280-11648-4	OCEAN EAST	T	Water	Total Nitrogen		
280-11648-5	OCEAN OUTLET	T	Water	Total Nitrogen		

Report Basis

T = Total

TestAmerica Denver

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Surrogate Recovery Report**625 Semivolatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	F BP %Rec	2 FP %Rec	T BP %Rec	N BZ %Rec	P HL %Rec	T PH %Rec
280-11648-1	CULVERT	94	89	93	105	92	86
280-11648-2	UPCANYON	90	85	91	91	89	108
280-11648-3	OCEAN WEST	83	88	84	92	90	93
280-11648-4	OCEAN EAST	101	101	99	109	105	90
280-11648-5	OCEAN OUTLET	94	95	97	97	98	90
MB 280-49365/1-A		67	92	84	94	91	111
LCS 280-49365/2-A		94	97	100	93	102	110
LCSD 280-49365/3-A		95	84	110	98	98	117

Surrogate

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

Acceptance Limits

36-120
30-120
50-120
45-120
36-120
52-120

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49365

Method: 625

Preparation: 625

Lab Sample ID: MB 280-49365/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0030
Date Prepared: 01/17/2011 1831

Analysis Batch: 280-49865
Prep Batch: 280-49365
Units: mg/L

Instrument ID: MSS_D
Lab File ID: D1502.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	Result	Qual	MDL	RL
Alpha-Terpineol	ND		0.0020	0.010
Benzoic acid	ND		0.010	0.050
p-Cresol	ND		0.00025	0.010
Pentachlorophenol	ND		0.020	0.060
Phenol	ND		0.0020	0.010
Surrogate	% Rec		Acceptance Limits	
2-Fluorobiphenyl	67		36 - 120	
2-Fluorophenol	92		30 - 120	
2,4,6-Tribromophenol	84		50 - 120	
Nitrobenzene-d5	94		45 - 120	
Phenol-d5	91		36 - 120	
Terphenyl-d14	111		52 - 120	

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49365

Method: 625

Preparation: 625

LCS Lab Sample ID: LCS 280-49365/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/20/2011 1546
 Date Prepared: 01/17/2011 1831

Analysis Batch: 280-49865
 Prep Batch: 280-49365
 Units: mg/L

Instrument ID: MSS_D
 Lab File ID: D1475.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-49365/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/20/2011 1605
 Date Prepared: 01/17/2011 1831

Analysis Batch: 280-49865
 Prep Batch: 280-49365
 Units: mg/L

Instrument ID: MSS_D
 Lab File ID: D1476.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Acenaphthene	96	98	47 - 120	3	30	
Acenaphthylene	98	102	33 - 120	4	30	
Anthracene	106	100	52 - 120	6	30	
Benzidine	97	109	10 - 218	12	50	
Benzo[a]anthracene	102	108	54 - 120	5	30	
Benzo[b]fluoranthene	99	107	51 - 120	8	90	
Benzo[k]fluoranthene	85	94	49 - 120	10	50	
Benzo[a]pyrene	84	89	39 - 120	6	73	
Bis(2-chloroethoxy)methane	86	95	50 - 120	9	30	
Bis(2-chloroethyl)ether	91	88	35 - 120	4	30	
Bis(2-ethylhexyl) phthalate	102	97	56 - 120	4	30	
4-Bromophenyl phenyl ether	115	101	53 - 120	14	34	
Butyl benzyl phthalate	104	111	53 - 120	7	30	
4-Chloro-3-methylphenol	105	93	57 - 120	12	30	
2-Chloronaphthalene	94	97	60 - 118	3	30	
2-Chlorophenol	102	95	34 - 120	7	30	
4-Chlorophenyl phenyl ether	98	100	51 - 120	2	30	
Chrysene	103	105	51 - 120	2	30	
Dibenz(a,h)anthracene	99	85	45 - 120	15	78	
Di-n-butyl phthalate	109	99	57 - 118	10	30	
1,2-Dichlorobenzene	75	72	32 - 120	4	42	
1,3-Dichlorobenzene	71	68	23 - 120	4	47	
1,4-Dichlorobenzene	74	70	24 - 120	5	49	
3,3'-Dichlorobenzidine	62	63	18 - 120	3	50	J
2,4-Dichlorophenol	88	94	46 - 120	6	30	
Diethyl phthalate	102	103	59 - 114	0	30	
2,4-Dimethylphenol	77	82	44 - 119	7	35	
Dimethyl phthalate	104	106	58 - 112	1	30	
4,6-Dinitro-2-methylphenol	101	94	40 - 120	8	55	
2,4-Dinitrophenol	89	93	20 - 121	5	61	
2,4-Dinitrotoluene	105	105	57 - 120	0	35	
2,6-Dinitrotoluene	95	101	56 - 120	6	30	
Di-n-octyl phthalate	105	111	56 - 120	5	30	
Fluoranthene	113	113	58 - 120	1	30	

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49365

Method: 625

Preparation: 625

LCS Lab Sample ID: LCS 280-49365/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/20/2011 1546
 Date Prepared: 01/17/2011 1831

Analysis Batch: 280-49865
 Prep Batch: 280-49365
 Units: mg/L

Instrument ID: MSS_D
 Lab File ID: D1475.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-49365/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/20/2011 1605
 Date Prepared: 01/17/2011 1831

Analysis Batch: 280-49865
 Prep Batch: 280-49365
 Units: mg/L

Instrument ID: MSS_D
 Lab File ID: D1476.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Fluorene	100	103	59 - 120	3	30	
Hexachlorobenzene	105	93	53 - 120	12	30	
Hexachlorobutadiene	74	72	27 - 116	4	41	
Hexachlorocyclopentadiene	50	52	10 - 120	5	82	J
Hexachloroethane	66	64	40 - 113	3	52	
Indeno[1,2,3-cd]pyrene	122	103	50 - 120	17	73	*
Isophorone	91	99	50 - 120	9	30	
p-Cresol	106	101	42 - 120	5	39	
Naphthalene	88	85	37 - 120	3	30	
Nitrobenzene	95	100	46 - 120	5	30	
2-Nitrophenol	85	94	47 - 120	10	30	
4-Nitrophenol	103	106	53 - 120	4	42	
N-Nitrosodimethylamine	103	89	37 - 120	15	30	
N-Nitrosodiphenylamine	106	95	46 - 203	11	50	
N-Nitrosodi-n-propylamine	101	96	50 - 120	5	30	
Pentachlorophenol	107	95	46 - 120	13	30	
Phenanthrene	104	102	54 - 120	2	30	
Phenol	103	98	37 - 112	5	30	
Pyrene	106	115	55 - 115	8	30	
1,2,4-Trichlorobenzene	70	76	44 - 120	9	35	
2,4,6-Trichlorophenol	97	99	51 - 120	2	30	
2-Methylphenol	102	94	38 - 120	8	35	
Benz[a,h,i]perylene	112	95	48 - 120	16	64	
2,2'-Oxybis(1-chloropropane)	100	95	37 - 120	5	30	

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	94	95	36 - 120
2-Fluorophenol	97	84	30 - 120
2,4,6-Tribromophenol	100	110	50 - 120
Nitrobenzene-d5	93	98	45 - 120
Phenol-d5	102	98	36 - 120
Terphenyl-d14	110	117	52 - 120

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49365

Method: 625

Preparation: 625

LCS Lab Sample ID: LCS 280-49365/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/20/2011 1546
 Date Prepared: 01/17/2011 1831

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49365/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/20/2011 1605
 Date Prepared: 01/17/2011 1831

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acenaphthene	0.0800	0.0800	0.0767	0.0787
Acenaphthylene	0.0800	0.0800	0.0780	0.0815
Anthracene	0.0800	0.0800	0.0851	0.0804
Benzidine	0.200	0.200	0.194	0.219
Benzo[a]anthracene	0.0800	0.0800	0.0818	0.0861
Benzo[b]fluoranthene	0.0800	0.0800	0.0792	0.0855
Benzo[k]fluoranthene	0.0800	0.0800	0.0680	0.0748
Benzo[a]pyrene	0.0800	0.0800	0.0668	0.0712
Bis(2-chloroethoxy)methane	0.0800	0.0800	0.0691	0.0759
Bis(2-chloroethyl)ether	0.0800	0.0800	0.0729	0.0703
Bis(2-ethylhexyl) phthalate	0.0800	0.0800	0.0813	0.0780
4-Bromophenyl phenyl ether	0.0800	0.0800	0.0922	0.0805
Butyl benzyl phthalate	0.0800	0.0800	0.0832	0.0892
4-Chloro-3-methylphenol	0.0800	0.0800	0.0842	0.0745
2-Chloronaphthalene	0.0800	0.0800	0.0749	0.0772
2-Chlorophenol	0.0800	0.0800	0.0815	0.0761
4-Chlorophenyl phenyl ether	0.0800	0.0800	0.0784	0.0800
Chrysene	0.0800	0.0800	0.0824	0.0840
Dibenz(a,h)anthracene	0.0800	0.0800	0.0791	0.0681
Di-n-butyl phthalate	0.0800	0.0800	0.0872	0.0791
1,2-Dichlorobenzene	0.0800	0.0800	0.0599	0.0572
1,3-Dichlorobenzene	0.0800	0.0800	0.0567	0.0546
1,4-Dichlorobenzene	0.0800	0.0800	0.0588	0.0562
3,3'-Dichlorobenzidine	0.0800	0.0800	0.0494 J	0.0508
2,4-Dichlorophenol	0.0800	0.0800	0.0705	0.0749
Diethyl phthalate	0.0800	0.0800	0.0818	0.0822
2,4-Dimethylphenol	0.0800	0.0800	0.0614	0.0657
Dimethyl phthalate	0.0800	0.0800	0.0836	0.0848
4,6-Dinitro-2-methylphenol	0.0800	0.0800	0.0811	0.0749
2,4-Dinitrophenol	0.0800	0.0800	0.0711	0.0744
2,4-Dinitrotoluene	0.0800	0.0800	0.0839	0.0843
2,6-Dinitrotoluene	0.0800	0.0800	0.0762	0.0811
Di-n-octyl phthalate	0.0800	0.0800	0.0843	0.0888
Fluoranthene	0.0800	0.0800	0.0905	0.0900
Fluorene	0.0800	0.0800	0.0799	0.0824
Hexachlorobenzene	0.0800	0.0800	0.0837	0.0745
Hexachlorobutadiene	0.0800	0.0800	0.0594	0.0573
Hexachlorocyclopentadiene	0.0800	0.0800	0.0399 J	0.0420 J
Hexachloroethane	0.0800	0.0800	0.0531	0.0515
Indeno[1,2,3-cd]pyrene	0.0800	0.0800	0.0974 *	0.0821
Isophorone	0.0800	0.0800	0.0727	0.0794

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49365

Method: 625

Preparation: 625

LCS Lab Sample ID: LCS 280-49365/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/20/2011 1546
Date Prepared: 01/17/2011 1831

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49365/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/20/2011 1605
Date Prepared: 01/17/2011 1831

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
p-Cresol	0.160	0.160	0.169	0.161
Naphthalene	0.0800	0.0800	0.0701	0.0680
Nitrobenzene	0.0800	0.0800	0.0760	0.0797
2-Nitrophenol	0.0800	0.0800	0.0683	0.0751
4-Nitrophenol	0.0800	0.0800	0.0821	0.0852
N-Nitrosodimethylamine	0.0800	0.0800	0.0821	0.0710
N-Nitrosodiphenylamine	0.0683	0.0683	0.0724	0.0651
N-Nitrosodi-n-propylamine	0.0800	0.0800	0.0809	0.0770
Pentachlorophenol	0.0800	0.0800	0.0860	0.0758
Phenanthrene	0.0800	0.0800	0.0830	0.0816
Phenol	0.0800	0.0800	0.0820	0.0783
Pyrene	0.0800	0.0800	0.0850	0.0918
1,2,4-Trichlorobenzene	0.0800	0.0800	0.0556	0.0609
2,4,6-Trichlorophenol	0.0800	0.0800	0.0778	0.0792
2-Methylphenol	0.0800	0.0800	0.0816	0.0755
Benzo[g,h,i]perylene	0.0800	0.0800	0.0894	0.0759
2,2'-Oxybis(1-chloropropane)	0.0800	0.0800	0.0799	0.0762

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49321

Lab Sample ID: MB 280-49321/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 2010
 Date Prepared: 01/17/2011 1427

Analysis Batch: 280-49542
 Prep Batch: 280-49321
 Units: mg/L

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

Instrument ID: MT_026
 Lab File ID: 26a011811.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Iron	ND		0.022	0.10
Lead	ND		0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	ND		0.0045	0.020
Silver	ND		0.00093	0.010
Potassium	ND		0.24	3.0
Calcium	ND		0.034	0.20
Magnesium	ND		0.011	0.20
Sodium	0.221	J ^	0.092	5.0

Lab Control Sample - Batch: 280-49321

Lab Sample ID: LCS 280-49321/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 2012
 Date Prepared: 01/17/2011 1427

Analysis Batch: 280-49542
 Prep Batch: 280-49321
 Units: mg/L

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

Instrument ID: MT_026
 Lab File ID: 26a011811.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.00	1.07	107	88 - 110	
Cadmium	0.100	0.0980	98	88 - 111	
Iron	1.00	0.994	99	89 - 115	
Lead	0.500	0.524	105	89 - 110	
Selenium	2.00	2.14	107	85 - 112	
Zinc	0.500	0.470	94	85 - 111	
Silver	0.0500	0.0470	94	85 - 115	
Potassium	50.0	50.1	100	89 - 114	
Calcium	50.0	47.9	96	90 - 111	
Magnesium	50.0	47.7	95	90 - 113	
Sodium	50.0	53.4	107	90 - 115	

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike**Matrix Spike Duplicate Recovery Report - Batch: 280-49321**

MS Lab Sample ID: 280-11648-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 2032
Date Prepared: 01/17/2011 1427

Analysis Batch: 280-49542
Prep Batch: 280-49321

MSD Lab Sample ID: 280-11648-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 2035
Date Prepared: 01/17/2011 1427

Analysis Batch: 280-49542
Prep Batch: 280-49321

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	114	114	88 - 110	0	20	F	F
Cadmium	101	101	88 - 111	0	20		
Iron	221	160	89 - 115	4	20	4	4
Lead	95	95	89 - 110	1	20		
Selenium	111	111	85 - 112	1	20		
Zinc	93	92	85 - 111	1	20		
Silver	103	102	85 - 115	1	20		
Potassium	116	113	89 - 114	1	20	4	4
Calcium	95	91	90 - 111	1	20		
Magnesium	86	82	90 - 113	0	20	4	4
Sodium	222	132	90 - 115	1	20	4	4

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike**Matrix Spike Duplicate Recovery Report - Batch: 280-49321**

MS Lab Sample ID: 280-11644-C-7-B MS Analysis Batch: 280-49542
Client Matrix: Water Prep Batch: 280-49321
Dilution: 1.0
Date Analyzed: 01/18/2011 2349
Date Prepared: 01/17/2011 1427

MSD Lab Sample ID: 280-11644-C-7-C MSD Analysis Batch: 280-49542
Client Matrix: Water Prep Batch: 280-49321
Dilution: 1.0
Date Analyzed: 01/18/2011 2351
Date Prepared: 01/17/2011 1427

Method: 200.7 Rev 4.4**Preparation: 200.7****Total Recoverable**

Instrument ID: MT_026
Lab File ID: 26a011811.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Instrument ID: MT_026
Lab File ID: 26a011811.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.				RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit					
Arsenic	113	114	88 - 110		0	20	F	F
Cadmium	99	100	88 - 111		0	20		
Iron	105	107	89 - 115		1	20		
Lead	108	109	89 - 110		0	20		
Selenium	112	113	85 - 112		1	20		F
Zinc	95	95	85 - 111		0	20		
Silver	97	98	85 - 115		1	20		
Potassium	106	106	89 - 114		0	20		
Calcium	97	97	90 - 111		0	20		
Magnesium	96	96	90 - 113		0	20		
Sodium	111	109	90 - 115		1	20		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49321

MS Lab Sample ID: 280-11648-5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 2032
 Date Prepared: 01/17/2011 1427

Units: mg/L

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

MSD Lab Sample ID: 280-11648-5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 2035
 Date Prepared: 01/17/2011 1427

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	1.00	1.00	1.14	F 1.14
Cadmium	ND	0.100	0.100	0.101	0.101
Iron	14	1.00	1.00	16.2 4	15.6 4
Lead	0.0061 J	0.500	0.500	0.483	0.480
Selenium	ND	2.00	2.00	2.23	2.21
Zinc	0.037	0.500	0.500	0.502	0.495
Silver	ND	0.0500	0.0500	0.0514	0.0510
Potassium	200	50.0	50.0	258 4	257 4
Calcium	190	50.0	50.0	243	240
Magnesium	510	50.0	50.0	554 4	552 4
Sodium	5000	50.0	50.0	5100 4	5050 4

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49321

MS Lab Sample ID: 280-11644-C-7-B MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 2349
 Date Prepared: 01/17/2011 1427

Units: mg/L

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

MSD Lab Sample ID: 280-11644-C-7-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 2351
 Date Prepared: 01/17/2011 1427

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	1.00	1.00	1.13	F 1.14
Cadmium	ND	0.100	0.100	0.0993	0.0997
Iron	0.31	1.00	1.00	1.35	1.37
Lead	ND	0.500	0.500	0.542	0.543
Selenium	ND	2.00	2.00	2.24	2.27
Zinc	ND	0.500	0.500	0.476	0.475
Silver	ND	0.0500	0.0500	0.0486	0.0492
Potassium	1.4 J	50.0	50.0	54.2	54.4
Calcium	61	50.0	50.0	109	109
Magnesium	13	50.0	50.0	61.1	61.1
Sodium	30	50.0	50.0	85.0	84.0

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49281

Method: 245.1

Preparation: 245.1

Lab Sample ID: MB 280-49281/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1559
 Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
 Prep Batch: 280-49281
 Units: mg/L

Instrument ID: MT_033
 Lab File ID: 110117AB.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.000027	0.00020

Lab Control Sample - Batch: 280-49281

Method: 245.1

Preparation: 245.1

Lab Sample ID: LCS 280-49281/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1601
 Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
 Prep Batch: 280-49281
 Units: mg/L

Instrument ID: MT_033
 Lab File ID: 110117AB.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00526	105	90 - 110	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49281

Method: 245.1

Preparation: 245.1

MS Lab Sample ID: 280-11648-3
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1615
 Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
 Prep Batch: 280-49281

Instrument ID: MT_033
 Lab File ID: 110117AB.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

MSD Lab Sample ID: 280-11648-3
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1617
 Date Prepared: 01/17/2011 1155

Analysis Batch: 280-49379
 Prep Batch: 280-49281

Instrument ID: MT_033
 Lab File ID: 110117AB.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	108	106	80 - 120	1	10		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49281

Method: 245.1

Preparation: 245.1

MS Lab Sample ID: 280-11648-3

Units: mg/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/17/2011 1615

Date Prepared: 01/17/2011 1155

MSD Lab Sample ID: 280-11648-3

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/17/2011 1617

Date Prepared: 01/17/2011 1155

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.00500	0.00500	0.00538	0.00530

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49286

Lab Sample ID: MB 280-49286/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1223
Date Prepared: 01/17/2011 1146

Analysis Batch: 280-49297
Prep Batch: 280-49286
Units: mg/L

Method: 1664A

Preparation: 1664A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
HEM	ND		1.4	5.0

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49286

LCS Lab Sample ID: LCS 280-49286/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1223
Date Prepared: 01/17/2011 1146

Analysis Batch: 280-49297
Prep Batch: 280-49286
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

LCSD Lab Sample ID: LCSD 280-49286/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1223
Date Prepared: 01/17/2011 1146

Analysis Batch: 280-49297
Prep Batch: 280-49286
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	% Rec.				RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD	Limit					
HEM	85	86	81 - 107	1	22			

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49286

Method: 1664A

Preparation: 1664A

LCS Lab Sample ID: LCS 280-49286/2-A

Units: mg/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/17/2011 1223

Date Prepared: 01/17/2011 1146

LCSD Lab Sample ID: LCSD 280-49286/3-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/17/2011 1223

Date Prepared: 01/17/2011 1146

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
HEM	40.0	40.0	34.1	34.3

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49632

Method: 300.0A

Preparation: N/A

Lab Sample ID: MB 280-49632/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1231
Date Prepared: N/A

Analysis Batch: 280-49632
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 115.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Bromide	ND		0.11	0.20
Chloride	ND		0.25	0.50
Sulfate	0.245	J	0.23	5.0

Method Reporting Limit Check - Batch: 280-49632

Method: 300.0A

Preparation: N/A

Lab Sample ID: MRL 280-49632/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1139
Date Prepared: N/A

Analysis Batch: 280-49632
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 112.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	0.196	98	50 - 150	J
Chloride	1.00	0.976	98	50 - 150	J
Sulfate	1.00	1.03	103	50 - 150	J

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49632

Method: 300.0A

Preparation: N/A

LCS Lab Sample ID: LCS 280-49632/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1156
Date Prepared: N/A

Analysis Batch: 280-49632
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 113.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-49632/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1214
Date Prepared: N/A

Analysis Batch: 280-49632
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 114.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec.				RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD	Limit	RPD				
Bromide	97	98	90 - 110	0	10			
Chloride	100	100	90 - 110	0	10			
Sulfate	102	102	90 - 110	0	10			

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49632

Method: 300.0A

Preparation: N/A

LCS Lab Sample ID: LCS 280-49632/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1156
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49632/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1214
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Bromide	5.00	5.00	4.87	4.89
Chloride	25.0	25.0	24.9	24.9
Sulfate	25.0	25.0	25.6	25.4

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49632

Method: 300.0A

Preparation: N/A

MS Lab Sample ID: 280-11561-A-5 MS Analysis Batch: 280-49632
 Client Matrix: Water Prep Batch: N/A
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1652
 Date Prepared: N/A

Instrument ID: WC_IC6
 Lab File ID: 124.TXT
 Initial Weight/Volume: 1.0 mL
 Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-11561-A-5 MSD Analysis Batch: 280-49632
 Client Matrix: Water Prep Batch: N/A
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1709
 Date Prepared: N/A

Instrument ID: WC_IC6
 Lab File ID: 125.TXT
 Initial Weight/Volume: 1.0 mL
 Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	103	103	80 - 120	0	20		
Chloride	104	105	80 - 120	1	20		
Sulfate	104	104	80 - 120	0	20		

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49632

Method: 300.0A

Preparation: N/A

MS Lab Sample ID: 280-11561-A-5 MS Units: mg/L
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1652
 Date Prepared: N/A

MSD Lab Sample ID: 280-11561-A-5 MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/17/2011 1709
 Date Prepared: N/A

Analyte	Sample	MS Spike	MSD Spike	MS	MSD
	Result/Qual	Amount	Amount	Result/Qual	Result/Qual
Bromide	ND	5.00	5.00	5.14	5.17
Chloride	3.1	25.0	25.0	29.1	29.4
Sulfate	5.1	25.0	25.0	31.0	31.2

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Duplicate - Batch: 280-49632

Method: 300.0A

Preparation: N/A

Lab Sample ID: 280-11561-A-5 DU Analysis Batch: 280-49632
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 01/17/2011 1634
Date Prepared: N/A

Instrument ID: WC_IC6
Lab File ID: 123.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bromide	ND	ND	NC	15	
Chloride	3.1	3.10	1	15	
Sulfate	5.1	5.08	0.4	15	

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49479

Method: 350.1

Preparation: N/A

Lab Sample ID: MB 280-49479/68
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1443
Date Prepared: N/A

Analysis Batch: 280-49479
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_40118NXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Ammonia	ND		0.022	0.10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49479

LCS Lab Sample ID: LCS 280-49479/69
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1444
Date Prepared: N/A

Analysis Batch: 280-49479
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_40118NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-49479/70
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1446
Date Prepared: N/A

Analysis Batch: 280-49479
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_40118NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ammonia	100	101	90 - 110	1	10		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49479

Method: 350.1

Preparation: N/A

LCS Lab Sample ID: LCS 280-49479/69
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1444
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49479/70
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1446
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia	5.00	5.00	4.99	5.03

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49479

MS Lab Sample ID: 280-11648-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1449
Date Prepared: N/A

Analysis Batch: 280-49479

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-11648-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1450
Date Prepared: N/A

Analysis Batch: 280-49479

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	% Rec.			RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit				
Ammonia	103	104	90 - 110	0	20		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49479

Method: 350.1

Preparation: N/A

MS Lab Sample ID: 280-11648-3

Units: mg/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/18/2011 1449

Date Prepared: N/A

MSD Lab Sample ID: 280-11648-3

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/18/2011 1450

Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia	0.053 J	4.00	4.00	4.19	4.21

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49480

Method: 353.2

Preparation: N/A

Lab Sample ID:	MB 280-49480/24	Analysis Batch:	280-49480
Client Matrix:	Water	Prep Batch:	N/A
Dilution:	1.0	Units:	mg/L
Date Analyzed:	01/18/2011 1337		
Date Prepared:	N/A		

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 1.0 mL

Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N	ND		0.019	0.10

Method Reporting Limit Check - Batch: 280-49480

Method: 353.2

Preparation: N/A

Lab Sample ID:	MRL 280-49480/17	Analysis Batch:	280-49480
Client Matrix:	Water	Prep Batch:	N/A
Dilution:	1.0	Units:	mg/L
Date Analyzed:	01/18/2011 1326		
Date Prepared:	N/A		

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 100 mL

Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	0.100	0.0947	95	50 - 150	J

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49480

Method: 353.2

Preparation: N/A

LCS Lab Sample ID:	LCS 280-49480/25	Analysis Batch:	280-49480
Client Matrix:	Water	Prep Batch:	N/A
Dilution:	1.0	Units:	mg/L
Date Analyzed:	01/18/2011 1338		
Date Prepared:	N/A		

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 100 mL

Final Weight/Volume: 100 mL

LCSD Lab Sample ID:	LCSD 280-49480/26	Analysis Batch:	280-49480
Client Matrix:	Water	Prep Batch:	N/A
Dilution:	1.0	Units:	mg/L
Date Analyzed:	01/18/2011 1340		
Date Prepared:	N/A		

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 100 mL

Final Weight/Volume: 100 mL

Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate Nitrite as N	100	100	90 - 110	0	10		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49480

Method: 353.2

Preparation: N/A

LCS Lab Sample ID: LCS 280-49480/25
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 1338
 Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49480/26
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 1340
 Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
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Nitrate Nitrite as N	5.00	5.00	4.98	4.98
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Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49480

Method: 353.2

Preparation: N/A

MS Lab Sample ID: 280-11561-E-7 MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 1419
 Date Prepared: N/A

Analysis Batch: 280-49480

Prep Batch: N/A

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-11561-E-7 MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/18/2011 1420
 Date Prepared: N/A

Analysis Batch: 280-49480

Prep Batch: N/A

Instrument ID: WC_Alp 2

Lab File ID: C:\FLOW_40118NXN.RST

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	% Rec.			RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit				
Nitrate Nitrite as N	99	98	72 - 113	0	17		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49480

Method: 353.2

Preparation: N/A

MS Lab Sample ID: 280-11561-E-7 MS

Units: mg/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/18/2011 1419

Date Prepared: N/A

MSD Lab Sample ID: 280-11561-E-7 MSD

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/18/2011 1420

Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	1.1	4.00	4.00	5.07	5.06

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49680

Lab Sample ID: MB 280-49680/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895
Prep Batch: 280-49680
Units: mg/L

Method: 365.1

Preparation: 365.2/365.3/365

Instrument ID: WC_Konelab
Lab File ID: 012111Tphos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	0.0115	J	0.0050	0.050

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49680

LCS Lab Sample ID: LCS 280-49680/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895
Prep Batch: 280-49680
Units: mg/L

Method: 365.1

Preparation: 365.2/365.3/365

Instrument ID: WC_Konelab
Lab File ID: 012111Tphos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 280-49680/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895
Prep Batch: 280-49680
Units: mg/L

Instrument ID: WC_Konelab
Lab File ID: 012111Tphos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.				RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD	Limit					
Phosphorus, Total	97	97	90 - 110	1	1	10		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/**Laboratory Duplicate Data Report - Batch: 280-49680****Method: 365.1****Preparation: 365.2/365.3/365**

LCS Lab Sample ID: LCS 280-49680/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49680/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Phosphorus, Total	0.500	0.500	0.483	0.487

Matrix Spike/**Matrix Spike Duplicate Recovery Report - Batch: 280-49680****Method: 365.1****Preparation: 365.2/365.3/365**

MS Lab Sample ID: 280-11648-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895

Prep Batch: 280-49680

Instrument ID: WC_Konelab
Lab File ID: 012111Tplos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-11648-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0856
Date Prepared: 01/20/2011 0938

Analysis Batch: 280-49895

Prep Batch: 280-49680

Instrument ID: WC_Konelab
Lab File ID: 012111Tplos2.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.			RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit				
Phosphorus, Total	87	75	71 - 128	8	22		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49680

Method: 365.1

Preparation: 365.2/365.3/365

MS Lab Sample ID: 280-11648-5

Units: mg/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/21/2011 0856

Date Prepared: 01/20/2011 0938

MSD Lab Sample ID: 280-11648-5

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/21/2011 0856

Date Prepared: 01/20/2011 0938

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Phosphorus, Total	0.33	0.500	0.500	0.767	0.706

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49489

Method: 410.4

Preparation: N/A

Lab Sample ID: MB 280-49489/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	ND		4.1	20

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-49489

LCS Lab Sample ID: LCS 280-49489/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-49489/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Chemical Oxygen Demand	94	100	90 - 110	7	11		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49489

Method: 410.4

Preparation: N/A

LCS Lab Sample ID: LCS 280-49489/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49489/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analyte

LCS Spike Amount

LCSD Spike Amount

LCS Result/Qual

LCSD Result/Qual

Chemical Oxygen Demand

100

100

93.7

100

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49489

Method: 410.4

Preparation: N/A

MS Lab Sample ID: 280-11648-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489

Prep Batch: N/A

Instrument ID: WC_HACH SPEC

Lab File ID: N/A

Initial Weight/Volume: 2 mL

Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-11648-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1729
Date Prepared: N/A

Analysis Batch: 280-49489

Prep Batch: N/A

Instrument ID: WC_HACH SPEC

Lab File ID: N/A

Initial Weight/Volume: 2 mL

Final Weight/Volume: 100 mL

Analyte

% Rec.

MS

MSD

Limit

RPD

RPD Limit

MS Qual

MSD Qual

Chemical Oxygen Demand

101

95

90 - 110

4

11

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49489

Method: 410.4

Preparation: N/A

MS Lab Sample ID: 280-11648-2

Units: mg/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/18/2011 1729

Date Prepared: N/A

MSD Lab Sample ID: 280-11648-2

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/18/2011 1729

Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chemical Oxygen Demand	29	50.0	50.0	79.1	76.0

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49821

Method: 410.4

Preparation: N/A

Lab Sample ID: MB 280-49821/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	ND		4.1	20

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49821

LCS Lab Sample ID: LCS 280-49821/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-49821/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Chemical Oxygen Demand	107	110	90 - 110	2	11		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49821

Method: 410.4

Preparation: N/A

LCS Lab Sample ID: LCS 280-49821/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49821/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand	100	100	107	110

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49821

Method: 410.4

Preparation: N/A

MS Lab Sample ID: 280-11648-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-11648-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2011 1737
Date Prepared: N/A

Analysis Batch: 280-49821
Prep Batch: N/A

Instrument ID: WC_HACH SPEC
Lab File ID: N/A
Initial Weight/Volume: 2 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chemical Oxygen Demand	94	100	90 - 110	3	11		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-49821

Method: 410.4

Preparation: N/A

MS Lab Sample ID: 280-11648-1

Units: mg/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/19/2011 1737

Date Prepared: N/A

MSD Lab Sample ID: 280-11648-1

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 01/19/2011 1737

Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chemical Oxygen Demand	45	50.0	50.0	91.6	94.4

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49444

Lab Sample ID: MB 280-49444/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1852
Date Prepared: N/A

Analysis Batch: 280-49444
Prep Batch: N/A
Units: mg/L

Method: SM 2320B

Preparation: N/A

Instrument ID: WC_AT2
Lab File ID: 011711.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Alkalinity	ND		1.1	5.0
Bicarbonate Alkalinity	ND		1.1	5.0
Carbonate Alkalinity	ND		1.1	5.0

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49444

LCS Lab Sample ID: LCS 280-49444/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1835
Date Prepared: N/A

Analysis Batch: 280-49444
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 011711.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-49444/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1845
Date Prepared: N/A

Analysis Batch: 280-49444
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 011711.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec.				RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD	Limit	2				
Total Alkalinity	98	100	90 - 110	2	10			

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49444

Method: SM 2320B

Preparation: N/A

LCS Lab Sample ID: LCS 280-49444/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1835
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49444/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1845
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
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Total Alkalinity	200	200	195	199
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Duplicate - Batch: 280-49444

Method: SM 2320B

Preparation: N/A

Lab Sample ID: 280-11644-A-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2011 1919
Date Prepared: N/A

Analysis Batch: 280-49444
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 011711.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
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Total Alkalinity	1100	1140	0.2	10	
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Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49449

Method: SM 2540D

Preparation: N/A

Lab Sample ID: MB 280-49449/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analysis Batch: 280-49449
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	ND		1.1	4.0

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-49449

LCS Lab Sample ID: LCS 280-49449/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analysis Batch: 280-49449
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 250 mL

LCSD Lab Sample ID: LCSD 280-49449/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analysis Batch: 280-49449
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Suspended Solids	101	102	86 - 114	1	20		

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-49449

Method: SM 2540D

Preparation: N/A

LCS Lab Sample ID: LCS 280-49449/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-49449/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
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Total Suspended Solids	100	100	101	102
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Duplicate - Batch: 280-49449

Method: SM 2540D

Preparation: N/A

Lab Sample ID: 280-11616-C-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2011 1349
Date Prepared: N/A

Analysis Batch: 280-49449
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 250 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
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Total Suspended Solids	280	272	1	10	
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Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Method Blank - Batch: 280-49935

Method: Total Nitrogen

Preparation: N/A

Lab Sample ID: MB 280-49935/1

Analysis Batch: 280-49935

Instrument ID: No Equipment Assigned

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Units: mg/L

Initial Weight/Volume:

Date Analyzed: 01/21/2011 1207

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte

Result

Qual

MDL

RL

Nitrogen, Total

ND

0.042

0.10

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-1

Client ID: CULVERT

Sample Date/Time: 01/13/2011 19:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-C-1-A	280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL	
A:625	280-11648-C-1-A	280-49865	280-49365	01/21/2011 00:49	1	TAL DEN	MGH	
P:200.7	280-11648-F-1-B	280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN	
A:200.7 Rev 4.4	280-11648-F-1-B	280-49542	280-49321	01/18/2011 20:14	1	TAL DEN	HEB	
P:245.1	280-11648-F-1-A	280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS	
A:245.1	280-11648-F-1-A	280-49379	280-49281	01/17/2011 16:08	1	TAL DEN	KS	
P:1664A	280-11648-A-1-A	280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG	
A:1664A	280-11648-A-1-A	280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG	
A:300.0A	280-11648-G-1	280-49632		01/17/2011 19:10	1	TAL DEN	TLP	
A:300.0A	280-11648-G-1	280-49632		01/18/2011 11:05	5	TAL DEN	TLP	
A:350.1	280-11648-E-1	280-49479		01/18/2011 14:52	1	TAL DEN	LES	
A:353.2	280-11648-E-1	280-49480		01/18/2011 14:25	1	TAL DEN	LES	
P:365.2/365.3/365	280-11648-E-1-B	280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS	
A:365.1	280-11648-E-1-B	280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS	
A:410.4	280-11648-A-1	280-49821		01/19/2011 17:37	1	TAL DEN	MRD	
A:SM 2320B	280-11648-D-1	280-49444		01/17/2011 20:27	1	TAL DEN	MRD	
A:SM 2540D	280-11648-D-1	280-49449		01/18/2011 13:49	1	TAL DEN	PAG	
A:Total Nitrogen	280-11648-A-1	280-49935		01/21/2011 12:07	1	TAL DEN	RS	
A:Field Sampling	280-11648-A-1	280-49270		01/13/2011 19:15	1	TAL DEN	FS	

Lab ID: 280-11648-1 MS

Client ID: CULVERT

Sample Date/Time: 01/13/2011 19:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-A-1 MS	280-49821			01/19/2011 17:37	1	TAL DEN	MRD

Lab ID: 280-11648-1 MSD

Client ID: CULVERT

Sample Date/Time: 01/13/2011 19:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-A-1 MSD	280-49821			01/19/2011 17:37	1	TAL DEN	MRD

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-2

Client ID: UPCANYON

Sample Date/Time: 01/13/2011 17:50 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-B-2-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-B-2-A		280-49865	280-49365	01/21/2011 01:08	1	TAL DEN	MGH
P:200.7	280-11648-F-2-A		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-2-A		280-49542	280-49321	01/18/2011 20:17	1	TAL DEN	HEB
P:245.1	280-11648-G-2-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-G-2-A		280-49379	280-49281	01/17/2011 16:11	1	TAL DEN	KS
P:1664A	280-11648-A-2-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-A-2-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-H-2		280-49632		01/17/2011 19:27	1	TAL DEN	TLP
A:300.0A	280-11648-H-2		280-49632		01/18/2011 11:22	5	TAL DEN	TLP
A:350.1	280-11648-F-2		280-49479		01/18/2011 14:53	1	TAL DEN	LES
A:353.2	280-11648-F-2		280-49480		01/18/2011 14:26	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-2-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-2-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-E-2		280-49489		01/18/2011 17:29	1	TAL DEN	MRD
A:SM 2320B	280-11648-D-2		280-49444		01/17/2011 20:34	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-2		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-2		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-2		280-49270		01/13/2011 17:50	1	TAL DEN	FS

Lab ID: 280-11648-2 MS

Client ID: UPCANYON

Sample Date/Time: 01/13/2011 17:50 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-E-2 MS		280-49489		01/18/2011 17:29	1	TAL DEN	MRD

Lab ID: 280-11648-2 MSD

Client ID: UPCANYON

Sample Date/Time: 01/13/2011 17:50 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:410.4	280-11648-E-2 MSD		280-49489		01/18/2011 17:29	1	TAL DEN	MRD

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-3

Client ID: OCEAN WEST

Sample Date/Time: 01/13/2011 17:45 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-B-3-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-B-3-A		280-49865	280-49365	01/21/2011 01:28	1	TAL DEN	MGH
P:200.7	280-11648-F-3-F		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-3-F		280-49542	280-49321	01/18/2011 20:19	1	TAL DEN	HEB
P:200.7	280-11648-F-3-F		280-49660	280-49321	01/17/2011 14:27	100	TAL DEN	KMN
	^100							
A:200.7 Rev 4.4	280-11648-F-3-F		280-49660	280-49321	01/19/2011 19:18	100	TAL DEN	HEB
	^100							
P:245.1	280-11648-F-3-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-3-A		280-49379	280-49281	01/17/2011 16:13	1	TAL DEN	KS
P:1664A	280-11648-C-3-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-C-3-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-G-3		280-49632		01/17/2011 19:45	20	TAL DEN	TLP
A:300.0A	280-11648-G-3		280-49632		01/18/2011 11:40	100	TAL DEN	TLP
A:300.0A	280-11648-G-3		280-49632		01/18/2011 11:57	500	TAL DEN	TLP
A:350.1	280-11648-E-3		280-49479		01/18/2011 14:47	1	TAL DEN	LES
A:353.2	280-11648-E-3		280-49480		01/18/2011 14:28	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-3-B		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
	5							
A:365.1	280-11648-E-3-B		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-A-3		280-49821		01/19/2011 17:37	5	TAL DEN	MRD
A:SM 2320B	280-11648-D-3		280-49444		01/17/2011 20:58	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-3		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-3		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-3		280-49270		01/13/2011 17:45	1	TAL DEN	FS

Lab ID: 280-11648-3 MS

Client ID: OCEAN WEST

Sample Date/Time: 01/13/2011 17:45 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:245.1	280-11648-F-3-D MS		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-3-D MS		280-49379	280-49281	01/17/2011 16:15	1	TAL DEN	KS
A:350.1	280-11648-E-3 MS		280-49479		01/18/2011 14:49	1	TAL DEN	LES

Lab ID: 280-11648-3 MSD

Client ID: OCEAN WEST

Sample Date/Time: 01/13/2011 17:45 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:245.1	280-11648-F-3-E		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	MSD							
A:245.1	280-11648-F-3-E		280-49379	280-49281	01/17/2011 16:17	1	TAL DEN	KS
A:350.1	MSD							
A:350.1	280-11648-E-3 MSD		280-49479		01/18/2011 14:50	1	TAL DEN	LES

TestAmerica Denver

A = Analytical Method P = Prep Method

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-4

Client ID: OCEAN EAST

Sample Date/Time: 01/13/2011 18:00 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-B-4-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-B-4-A		280-49865	280-49365	01/21/2011 01:47	1	TAL DEN	MGH
P:200.7	280-11648-F-4-B		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-4-B		280-49542	280-49321	01/18/2011 20:22	1	TAL DEN	HEB
P:200.7	280-11648-F-4-B		280-49660	280-49321	01/17/2011 14:27	100	TAL DEN	KMN
	^100							
A:200.7 Rev 4.4	280-11648-F-4-B		280-49660	280-49321	01/19/2011 19:20	100	TAL DEN	HEB
	^100							
P:245.1	280-11648-F-4-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-F-4-A		280-49379	280-49281	01/17/2011 16:20	1	TAL DEN	KS
P:1664A	280-11648-C-4-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-C-4-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-G-4		280-49632		01/17/2011 20:02	20	TAL DEN	TLP
A:300.0A	280-11648-G-4		280-49632		01/18/2011 12:14	100	TAL DEN	TLP
A:300.0A	280-11648-G-4		280-49632		01/18/2011 12:31	500	TAL DEN	TLP
A:350.1	280-11648-E-4		280-49479		01/18/2011 14:55	1	TAL DEN	LES
A:353.2	280-11648-E-4		280-49480		01/18/2011 14:29	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-4-B		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
5								
A:365.1	280-11648-E-4-B		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-A-4		280-49821		01/19/2011 17:37	5	TAL DEN	MRD
A:SM 2320B	280-11648-D-4		280-49444		01/17/2011 21:06	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-4		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-4		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-4		280-49270		01/13/2011 18:00	1	TAL DEN	FS

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-5

Client ID: OCEAN OUTLET

Sample Date/Time: 01/13/2011 18:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-11648-A-5-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	280-11648-A-5-A		280-49865	280-49365	01/21/2011 02:07	1	TAL DEN	MGH
P:200.7	280-11648-F-5-A		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-5-A		280-49542	280-49321	01/18/2011 20:26	1	TAL DEN	HEB
P:245.1	280-11648-G-5-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	280-11648-G-5-A		280-49379	280-49281	01/17/2011 16:22	1	TAL DEN	KS
P:1664A	280-11648-B-5-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	280-11648-B-5-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	280-11648-H-5		280-49632		01/17/2011 20:19	10	TAL DEN	TLP
A:300.0A	280-11648-H-5		280-49632		01/18/2011 12:49	50	TAL DEN	TLP
A:300.0A	280-11648-H-5		280-49632		01/18/2011 13:06	200	TAL DEN	TLP
A:350.1	280-11648-F-5		280-49479		01/18/2011 15:05	1	TAL DEN	LES
A:353.2	280-11648-F-5		280-49480		01/18/2011 14:31	1	TAL DEN	LES
P:365.2/365.3/365	280-11648-E-5-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-5-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	280-11648-E-5		280-49489		01/18/2011 17:29	2	TAL DEN	MRD
A:SM 2320B	280-11648-D-5		280-49444		01/17/2011 21:14	1	TAL DEN	MRD
A:SM 2540D	280-11648-D-5		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	280-11648-A-5		280-49935		01/21/2011 12:07	1	TAL DEN	RS
A:Field Sampling	280-11648-A-5		280-49270		01/13/2011 18:15	1	TAL DEN	FS

Lab ID: 280-11648-5 MS

Client ID: OCEAN OUTLET

Sample Date/Time: 01/13/2011 18:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11648-F-5-B MS		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-5-B MS		280-49542	280-49321	01/18/2011 20:32	1	TAL DEN	HEB
P:365.2/365.3/3655	280-11648-E-5-B MS		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-5-B MS		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: 280-11648-5 MSD

Client ID: OCEAN OUTLET

Sample Date/Time: 01/13/2011 18:15 Received Date/Time: 01/17/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11648-F-5-C MSD		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11648-F-5-C MSD		280-49542	280-49321	01/18/2011 20:35	1	TAL DEN	HEB
P:365.2/365.3/36 5	280-11648-E-5-C MSD		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	280-11648-E-5-C MSD		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	MB 280-49365/1-A		280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL
A:625	MB 280-49365/1-A		280-49865	280-49365	01/21/2011 00:30	1	TAL DEN	MGH
P:200.7	MB 280-49321/1-A		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	MB 280-49321/1-A		280-49542	280-49321	01/18/2011 20:10	1	TAL DEN	HEB
P:245.1	MB 280-49281/1-A		280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS
A:245.1	MB 280-49281/1-A		280-49379	280-49281	01/17/2011 15:59	1	TAL DEN	KS
P:1664A	MB 280-49286/1-A		280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG
A:1664A	MB 280-49286/1-A		280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG
A:300.0A	MB 280-49632/6		280-49632		01/17/2011 12:31	1	TAL DEN	TLP
A:350.1	MB 280-49479/68		280-49479		01/18/2011 14:43	1	TAL DEN	LES
A:353.2	MB 280-49480/24		280-49480		01/18/2011 13:37	1	TAL DEN	LES
P:365.2/365.3/36 5	MB 280-49680/3-A		280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS
A:365.1	MB 280-49680/3-A		280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS
A:410.4	MB 280-49489/5		280-49489		01/18/2011 17:29	1	TAL DEN	MRD
A:410.4	MB 280-49821/5		280-49821		01/19/2011 17:37	1	TAL DEN	MRD
A:SM 2320B	MB 280-49444/6		280-49444		01/17/2011 18:52	1	TAL DEN	MRD
A:SM 2540D	MB 280-49449/1		280-49449		01/18/2011 13:49	1	TAL DEN	PAG
A:Total Nitrogen	MB 280-49935/1		280-49935		01/21/2011 12:07	1	TAL DEN	RS

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	LCS 280-49365/2-A	280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL	
A:625	LCS 280-49365/2-A	280-49865	280-49365	01/20/2011 15:46	1	TAL DEN	MGH	
P:200.7	LCS 280-49321/2-A	280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN	
A:200.7 Rev 4.4	LCS 280-49321/2-A	280-49542	280-49321	01/18/2011 20:12	1	TAL DEN	HEB	
P:245.1	LCS 280-49281/2-A	280-49379	280-49281	01/17/2011 11:55	1	TAL DEN	KS	
A:245.1	LCS 280-49281/2-A	280-49379	280-49281	01/17/2011 16:01	1	TAL DEN	KS	
P:1664A	LCS 280-49286/2-A	280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG	
A:1664A	LCS 280-49286/2-A	280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG	
A:300.0A	LCS 280-49632/4	280-49632		01/17/2011 11:56	1	TAL DEN	TLP	
A:350.1	LCS 280-49479/69	280-49479		01/18/2011 14:44	1	TAL DEN	LES	
A:353.2	LCS 280-49480/25	280-49480		01/18/2011 13:38	1	TAL DEN	LES	
P:365.2/365.3/36	LCS 280-49680/1-A	280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS	
5								
A:365.1	LCS 280-49680/1-A	280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS	
A:410.4	LCS 280-49489/3	280-49489		01/18/2011 17:29	1	TAL DEN	MRD	
A:410.4	LCS 280-49821/3	280-49821		01/19/2011 17:37	1	TAL DEN	MRD	
A:SM 2320B	LCS 280-49444/4	280-49444		01/17/2011 18:35	1	TAL DEN	MRD	
A:SM 2540D	LCS 280-49449/2	280-49449		01/18/2011 13:49	1	TAL DEN	PAG	

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	LCSD 280-49365/3-A	280-49865	280-49365	01/17/2011 18:31	1	TAL DEN	TBL	
A:625	LCSD 280-49365/3-A	280-49865	280-49365	01/20/2011 16:05	1	TAL DEN	MGH	
P:1664A	LCSD 280-49286/3-A	280-49297	280-49286	01/17/2011 11:46	1	TAL DEN	PAG	
A:1664A	LCSD 280-49286/3-A	280-49297	280-49286	01/17/2011 12:23	1	TAL DEN	PAG	
A:300.0A	LCSD 280-49632/5	280-49632		01/17/2011 12:14	1	TAL DEN	TLP	
A:350.1	LCSD 280-49479/70	280-49479		01/18/2011 14:46	1	TAL DEN	LES	
A:353.2	LCSD 280-49480/26	280-49480		01/18/2011 13:40	1	TAL DEN	LES	
P:365.2/365.3/36	LCSD 280-49680/2-A	280-49895	280-49680	01/20/2011 09:38	1	TAL DEN	SJS	
5								
A:365.1	LCSD 280-49680/2-A	280-49895	280-49680	01/21/2011 08:56	1	TAL DEN	SJS	
A:410.4	LCSD 280-49489/4	280-49489		01/18/2011 17:29	1	TAL DEN	MRD	
A:410.4	LCSD 280-49821/4	280-49821		01/19/2011 17:37	1	TAL DEN	MRD	
A:SM 2320B	LCSD 280-49444/5	280-49444		01/17/2011 18:45	1	TAL DEN	MRD	
A:SM 2540D	LCSD 280-49449/3	280-49449		01/18/2011 13:49	1	TAL DEN	PAG	

Quality Control Results

Client: Waste Management

Job Number: 280-11648-1

Laboratory Chronicle

Lab ID: MRL

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0A	MRL 280-49632/3		280-49632		01/17/2011 11:39	1	TAL DEN	TLP
A:353.2	MRL 280-49480/17		280-49480		01/18/2011 13:26	1	TAL DEN	LES

Lab ID: MS

Client ID: N/A

Sample Date/Time: 01/14/2011 12:52

Received Date/Time: 01/15/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11644-C-7-B MS		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11644-C-7-B MS		280-49542	280-49321	01/18/2011 23:49	1	TAL DEN	HEB
A:300.0A	280-11561-A-5 MS		280-49632		01/17/2011 16:52	1	TAL DEN	TLP
A:353.2	280-11561-E-7 MS		280-49480		01/18/2011 14:19	1	TAL DEN	LES

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 01/14/2011 12:52

Received Date/Time: 01/15/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-11644-C-7-C MSD		280-49542	280-49321	01/17/2011 14:27	1	TAL DEN	KMN
A:200.7 Rev 4.4	280-11644-C-7-C MSD		280-49542	280-49321	01/18/2011 23:51	1	TAL DEN	HEB
A:300.0A	280-11561-A-5 MSD		280-49632		01/17/2011 17:09	1	TAL DEN	TLP
A:353.2	280-11561-E-7 MSD		280-49480		01/18/2011 14:20	1	TAL DEN	LES

Lab ID: DU

Client ID: N/A

Sample Date/Time: 01/12/2011 10:05

Received Date/Time: 01/12/2011 17:26

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0A	280-11561-A-5 DU		280-49632		01/17/2011 16:34	1	TAL DEN	TLP
A:SM 2320B	280-11644-A-1 DU		280-49444		01/17/2011 19:19	1	TAL DEN	MRD
A:SM 2540D	280-11616-C-1 DU		280-49449		01/18/2011 13:49	1	TAL DEN	PAG

Lab References:

TAL DEN = TestAmerica Denver

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Honolulu

99-193 Aiea Heights Drive, Suite 121

Aiea, HI 96701

Tel: 808-486-5227

TestAmerica Job ID: HUA0073

TestAmerica Sample Delivery Group: HUA0073

Client Project/Site: 60147675.02

Client Project Description: AECOM, W GSL STORMWATER

For:

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Attn: Betsy Sarah

Authorized for release by:

1/21/2011 12:58 PM

Marvin D. Heskett III

Laboratory Director

marvin.heskett@testamericainc.com

Designee for

Angelique Showman

Project Manager

angelique.showman@testamericainc.com

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Qualifier Definition/Glossary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Glossary

Glossary	Glossary Description
⊗	Listed under the "D" column to designate that the result is reported on a dry weight basis.

Sample Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HUA0073-01	CULVERT	Water - NonPotable	01/13/11 19:15	01/14/11 00:00
HUA0073-02	UP CANYON	Water - NonPotable	01/13/11 17:50	01/14/11 00:00
HUA0073-03	OCEAN WEST	Water - NonPotable	01/13/11 17:45	01/14/11 00:00
HUA0073-04	OCEAN EAST	Water - NonPotable	01/13/11 15:00	01/14/11 00:00
HUA0073-05	OCEAN OUTLET	Water - NonPotable	01/13/11 18:15	01/14/11 00:00

Detection Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: CULVERT

Lab Sample ID: HUA0073-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BOD - 5 Day	8.91		2.00		mg/L	1		EPA 405.1	total

Client Sample ID: UP CANYON

Lab Sample ID: HUA0073-02

No Detections.

Client Sample ID: OCEAN WEST

Lab Sample ID: HUA0073-03

No Detections.

Client Sample ID: OCEAN EAST

Lab Sample ID: HUA0073-04

No Detections.

Client Sample ID: OCEAN OUTLET

Lab Sample ID: HUA0073-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BOD - 5 Day	3.48		2.00		mg/L	1		EPA 405.1	total

Analytical Data

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: CULVERT
Date Collected: 01/13/11 19:15
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-01
Matrix: Water - NonPotable

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	8.91		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: UP CANYON

Date Collected: 01/13/11 17:50
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-02
Matrix: Water - NonPotable

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: OCEAN WEST

Date Collected: 01/13/11 17:45
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-03
Matrix: Water - NonPotable

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: OCEAN EAST

Date Collected: 01/13/11 15:00
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-04
Matrix: Water - NonPotable

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Client Sample ID: OCEAN OUTLET

Date Collected: 01/13/11 18:15
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-05
Matrix: Water - NonPotable

Method: EPA 405.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	3.48		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

TestAmerica Honolulu

Analytical Data

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: OCEAN OUTLET

Date Collected: 01/13/11 18:15
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-05

Matrix: Water - NonPotable

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Quality Control Data

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Method: EPA 405.1 - General Chemistry Parameters

Lab Sample ID: 11A0067-BLK1

Matrix: Water - NonPotable

Analysis Batch: 11A0067

Client Sample ID: 11A0067-BLK1

Prep Type: total

Prep Batch: 11A0067_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BOD - 5 Day	ND		2.00		mg/L		01/14/11 10:25	01/19/11 11:08	1

Lab Sample ID: 11A0067-BS1

Matrix: Water - NonPotable

Analysis Batch: 11A0067

Client Sample ID: 11A0067-BS1

Prep Type: total

Prep Batch: 11A0067_P

Analyte	Spike	LCS	LCS	Unit	D	% Rec.	Limits
	Added	Result	Qualifier				
BOD - 5 Day	198	179		mg/L	91	85 - 115	

Lab Sample ID: 11A0067-DUP1

Matrix: Water - NonPotable

Analysis Batch: 11A0067

Client Sample ID: HUA0066-01

Prep Type: total

Prep Batch: 11A0067_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
BOD - 5 Day	2.97		2.96		mg/L		0.3	20

Method: EPA 7196 - Hexavalent Chromium by EPA Method 7196A

Lab Sample ID: 11A0072-BLK1

Matrix: Water - NonPotable

Analysis Batch: 11A0072

Client Sample ID: 11A0072-BLK1

Prep Type: total

Prep Batch: 11A0072_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium, Hexavalent	ND		10.0		ug/L		01/14/11 14:40	01/14/11 14:42	1

Lab Sample ID: 11A0072-BS1

Matrix: Water - NonPotable

Analysis Batch: 11A0072

Client Sample ID: 11A0072-BS1

Prep Type: total

Prep Batch: 11A0072_P

Analyte	Spike	LCS	LCS	Unit	D	% Rec.	Limits
	Added	Result	Qualifier				
Chromium, Hexavalent	500	501		ug/L	100	80 - 120	

Lab Sample ID: 11A0072-MS1

Matrix: Water - NonPotable

Analysis Batch: 11A0072

Client Sample ID: OCEAN WEST

Prep Type: total

Prep Batch: 11A0072_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec.
	Result	Qualifier	Added	Result	Qualifier			
Chromium, Hexavalent	ND		500	476		ug/L	95	75 - 125

Lab Sample ID: 11A0072-MSD1

Matrix: Water - NonPotable

Analysis Batch: 11A0072

Client Sample ID: OCEAN WEST

Prep Type: total

Prep Batch: 11A0072_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec.
	Result	Qualifier	Added	Result	Qualifier			
Chromium, Hexavalent	ND		500	481		ug/L	96	75 - 125

QC Association Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

WetChem

Analysis Batch: 11A0067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0067-BLK1	11A0067-BLK1	total	Water - NonPotable	EPA 405.1	11A0067_P
11A0067-BS1	11A0067-BS1	total	Water - NonPotable	EPA 405.1	11A0067_P
11A0067-DUP1	HUA0066-01	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-01	CULVERT	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-02	UP CANYON	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-03	OCEAN WEST	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-04	OCEAN EAST	total	Water - NonPotable	EPA 405.1	11A0067_P
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	EPA 405.1	11A0067_P

Prep Batch: 11A0067_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0067-BLK1	11A0067-BLK1	total	Water - NonPotable	Default Prep GenChem	
11A0067-BS1	11A0067-BS1	total	Water - NonPotable	Default Prep GenChem	
11A0067-DUP1	HUA0066-01	total	Water - NonPotable	Default Prep GenChem	
HUA0073-01	CULVERT	total	Water - NonPotable	Default Prep GenChem	
HUA0073-02	UP CANYON	total	Water - NonPotable	Default Prep GenChem	
HUA0073-03	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	
HUA0073-04	OCEAN EAST	total	Water - NonPotable	Default Prep GenChem	
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	Default Prep GenChem	

Analysis Batch: 11A0072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0072-BLK1	11A0072-BLK1	total	Water - NonPotable	EPA 7196	11A0072_P
11A0072-BS1	11A0072-BS1	total	Water - NonPotable	EPA 7196	11A0072_P
11A0072-MS1	OCEAN WEST	total	Water - NonPotable	EPA 7196	11A0072_P
11A0072-MSD1	OCEAN WEST	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-01	CULVERT	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-02	UP CANYON	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-03	OCEAN WEST	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-04	OCEAN EAST	total	Water - NonPotable	EPA 7196	11A0072_P
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	EPA 7196	11A0072_P

Prep Batch: 11A0072_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0072-BLK1	11A0072-BLK1	total	Water - NonPotable	Default Prep GenChem	
11A0072-BS1	11A0072-BS1	total	Water - NonPotable	Default Prep GenChem	
11A0072-MS1	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	

QC Association Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

WetChem (Continued)

Prep Batch: 11A0072_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0072-MSD1	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	4
HUA0073-01	CULVERT	total	Water - NonPotable	Default Prep GenChem	5
HUA0073-02	UP CANYON	total	Water - NonPotable	Default Prep GenChem	6
HUA0073-03	OCEAN WEST	total	Water - NonPotable	Default Prep GenChem	7
HUA0073-04	OCEAN EAST	total	Water - NonPotable	Default Prep GenChem	8
HUA0073-05	OCEAN OUTLET	total	Water - NonPotable	Default Prep GenChem	9
					10
					11
					12

Lab Chronicle

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Client Sample ID: CULVERT

Date Collected: 01/13/11 19:15
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-01

Matrix: Water - NonPotable

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM

Client Sample ID: UP CANYON

Date Collected: 01/13/11 17:50
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-02

Matrix: Water - NonPotable

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM

Client Sample ID: OCEAN WEST

Date Collected: 01/13/11 17:45
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-03

Matrix: Water - NonPotable

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM

Client Sample ID: OCEAN EAST

Date Collected: 01/13/11 15:00
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-04

Matrix: Water - NonPotable

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM
total	Prep	Default Prep GenChem		1.00	11A0072_P	01/14/11 14:40	JLM
total	Analysis	EPA 7196		1	11A0072	01/14/11 14:42	JLM

Client Sample ID: OCEAN OUTLET

Date Collected: 01/13/11 18:15
Date Received: 01/14/11 00:00

Lab Sample ID: HUA0073-05

Matrix: Water - NonPotable

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Lab
total	Prep	Default Prep GenChem		1.00	11A0067_P	01/14/11 10:25	JLM

TestAmerica Honolulu

Lab Chronicle

Client: TestAmerica Denver

Project/Site: 60147675.02

TestAmerica Job ID: HUA0073

SDG: HUA0073

Client Sample ID: OCEAN OUTLET

Lab Sample ID: HUA0073-05

Date Collected: 01/13/11 18:15

Matrix: Water - NonPotable

Date Received: 01/14/11 00:00

Prep Type	Batch	Batch	Dilution	Batch	Prepared			
	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
total	Analysis	EPA 405.1		1	11A0067	01/19/11 11:08	JLM	TestAmerica Honolulu
total	Prep	Default Prep		1.00	11A0072_P	01/14/11 14:40	JLM	TestAmerica Honolulu
total	Analysis	GenChem						
		EPA 7196		1	11A0072	01/14/11 14:42	JLM	TestAmerica Honolulu

Certification Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Honolulu		USDA		HON-S-206	01/31/12
TestAmerica Honolulu	Florida	NELAC	4	E87907	06/30/11
TestAmerica Honolulu	Hawaii	State Program	9		06/28/11
TestAmerica Honolulu	L-A-B	DoD ELAP	0	L2250	04/23/13

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: TestAmerica Denver
Project/Site: 60147675.02

TestAmerica Job ID: HUA0073
SDG: HUA0073

Method	Method Description	Protocol	Laboratory
EPA 405.1	General Chemistry Parameters		TAL HON
EPA 7196	Hexavalent Chromium by EPA Method 7196A		TAL HON

Protocol References:

=

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

Chain of Custody Record

Sampler ID _____
Temperature on Receipt _____

TestAmerica

Huftantz

TAL-4124-280 (0508)

THE LEADER IN ENVIRONMENTAL TESTING

Client Waste Management / AT&T Tech Svcs.	Project Manager Tobias Kocher	Date 11/13/11	Chain of Custody Number 134341
Address 1001 Bishop St. Ste 1600	Telephone Number (Area Code)/Fax Number 808.5306	Lab Number /	Page / of 1
City Honolulu HI	Site Contact Justin Loftis	Analysis (Attach list if more space is needed)	
State HI	Zip Code 96813	Carrier/Waybill Number Betty Serra	

**Special Instructions/
Conditions of Receipt**

(VA)

BOD

Cr. (VI)

DOCH

ZnAcH

NaOH

HCl

HNO3

H2SO4

Upters.

Sed.

Aqueous

SLI

SLII

SLIII

SLIV

SLV

SLVI

SLVII

SLVIII

SLIX

SLX

SLXI

SLXII

SLXIII

SLXIV

SLXV

SLXVI

SLXVII

SLXVIII

SLXIX

SLXX

SLXXI

SLXXII

SLXXIII

SLXXIV

SLXXV

SLXXVI

SLXXVII

SLXXVIII

SLXXIX

SLXXX

SLXXI

SLXXII

SLXXIII

SLXXIV

SLXXV

SLXXVI

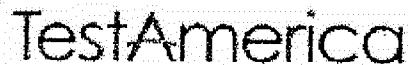
SLXXVII

SLXXVIII

SLXXVIX

SLXXVII

SLXXVIII



Rush TAT Confirmation (Initial/Date) _____

HUA0073

Sample Receipt ChecklistClient Name: Waste Management Date/ Time Received: 1/14/11 930Received By: eeMatrices: AQCarrier: Clerk

Airbill# :

Shipping container/cooler in good condition?

Yes No Not Present

Chain of Custody present?

Yes No

Chain of Custody Signed when relinquished and received?

Yes

Chain of Custody agrees with sample labels?

Yes

Samples in proper container/bottle?

Yes

Sample containers intact?

Yes

Sample containers on ice?

Yes

Sufficient sample volume for indicated test?

Yes

All samples received within holding time?

Yes

Water - VOA Vials have Zero Headspace?

Yes No No VOA vials present:

Water - pH acceptable upon receipt?

Yes No Not Checked:

Encores / MI-VOC / 5035 Vials Present?

pH Adjusted? Yes No Final pH: _____
Yes No Location: _____
Yes No Filtered in Field:
Yes No Take Action:
Yes No Type: _____

Sample Filtration Needed?

Dry Weight Corrected Results?

DODQSM / QAPP Project?

Temperature Blank Present? Yes No Sample Container Temperature: 3 °C**Comments/ Sampling Handling Notes:**

**Chain of
Custody Record**

TAL-4124-280 (0508)

Sampler ID 9.2 °C
Temperature on Receipt 7.7 °C
Drinking Water? Yes No

TestAmerica

Cooler Log
10/21/2011

WMH003593

9.2 °C
ICE

8.1 °C

10.4 °C

FIELD INFORMATION FORM



Site Name:	WGSL				T T T T T
Site No.:				Sample Point:	Culver + Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

01 / 13 / 11

Petela Placa

01.13.11

Tobias Koehler

for I have

Sept 30th

AECOM

AECOM

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample YELLOw - Returned to Client PINK - Field Copy

FIELD INFORMATION FORM



Site Name:	W GSL		
Site No.:		Sample Point:	VpconNan
	Sample ID: _____		

This Waste Management Field Information Form is Required

This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO	01/13/10 P2L											
	PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOL PURGED						
<i>Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.</i>												
PURGE/SAMPLE EQUIPMENT	Purging and Sampling Equipment ... Dedicated: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N				Filter Device: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N 0.45 μ or _____ μ (circle or fill in)							
	Purging Device <input checked="" type="checkbox"/>	A- Submersible Pump B-Peristaltic Pump C-QED Bladder Pump	D-Bailer E-Piston Pump F-Dipper/Bottle	A-In-line Disposable B-Pressure C-Vacuum X-Other: _____								
	Sampling Device <input checked="" type="checkbox"/> F	Filter Type: <input checked="" type="checkbox"/> _____				A-Teflon B-Stainless Steel	C-PVC D-Polypropylene	X-Other: _____				
	X-Other: _____	Sample Tube Type: <input checked="" type="checkbox"/> _____										
WELL DATA	Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)			Groundwater Elevation (site datum, from TOC)							
	Total Well Depth (from TOC)	Stick Up (from ground elevation)			Casing ID (in)	Casing Material						
<i>Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.</i>												
STABILIZATION DATA (Optional)	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (μ mhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)			
	1 st	1 st	1 st	1 st	1 st	1 st	1 st	1 st				
	2 nd	2 nd	2 nd	2 nd	2 nd	2 nd	2 nd	2 nd				
	3 rd	3 rd	3 rd	3 rd	3 rd	3 rd	3 rd	3 rd				
	4 th	4 th	4 th	4 th	4 th	4 th	4 th	4 th				
	5 th	5 th	5 th	5 th	5 th	5 th	5 th	5 th				
	6 th	6 th	6 th	6 th	6 th	6 th	6 th	6 th				
	7 th	7 th	7 th	7 th	7 th	7 th	7 th	7 th				
	8 th	8 th	8 th	8 th	8 th	8 th	8 th	8 th				
	9 th	9 th	9 th	9 th	9 th	9 th	9 th	9 th				
	10 th	10 th	10 th	10 th	10 th	10 th	10 th	10 th				
	11 th	11 th	11 th	11 th	11 th	11 th	11 th	11 th				
Suggested range for 3 consec. readings or note Permit/State requirements: +/- 0.2 +/- 3% -- +/- 10% +/- 25 mV Stabilize												
<i>Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.</i>												
FIELD DATA	SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (μ mhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units				
	01/13/11	846										
Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site).												
FIELD COMMENTS	Sample Appearance:	Light reddish brown			Odor:	None	Color:	L-Reddish brown	Other:			
	Weather Conditions (required daily, or as conditions change):				Direction/Speed:	10 mph NE	Outlook:	clear	Precipitation:	<input checked="" type="checkbox"/> Y or <input type="checkbox"/> N		
Specific Comments (including purge/well volume calculations if required): Collected 3 aliquots at ① 1720, ② 1B5 & ③ 1750 Sample time 1750 (comprate sample)												
I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):												
01/13/10	Peter LaPlaca			Tobias Kochler			Signature			AECOM		
01/13/10	Tobias Kochler			Signature			Signature			AECOM		
Date	Name										Company	

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

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01/21/2011

TAL-8029WM (0108)

WMH003595

FIELD INFORMATION FORM



Site Name:

W GSL

Site No.:

Sample Point: Ocean West

Sample ID

This Waste Management Field Information Form is Required

This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO										
	PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)		ACTUAL VOL PURGED (Gallons)		WELL VOL PURGED		
<i>Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.</i>										
PURGE/SAMPLE EQUIPMENT	Purging and Sampling Equipment ... Dedicated: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N			Filter Device: <input type="checkbox"/> Y or <input checked="" type="checkbox"/> N 0.45 μ or <input type="checkbox"/> μ (circle or fill in)						
	Purging Device <input type="checkbox"/>	A- Submersible Pump	D-Builer	A-In-line Disposable			C-Vacuum			
	Sampling Device <input checked="" type="checkbox"/> F	B-Peristaltic Pump	E-Piston Pump	B-Pressure			X-Other			
X-Other:	C-QED Bladder Pump	F-Dipper/Bottle	Sample Tube Type: <input type="checkbox"/>			A-Teflon	C-PVC	X-Other: <input type="checkbox"/>		
Well Elevation (at TOC) <input type="checkbox"/> (ft/msl)			Depth to Water (DTW) (from TOC) <input type="checkbox"/> (ft)			Groundwater Elevation (site datum, from TOC) <input type="checkbox"/> (ft/msl)				
Total Well Depth (from TOC) <input type="checkbox"/> (ft)			Stick Up (from ground elevation) <input type="checkbox"/> (ft)			Casing ID <input type="checkbox"/> (in)	Casing Material <input type="checkbox"/>			
<i>Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.</i>										
STABILIZATION DATA (Optional)	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (μ mhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)	
	<input type="checkbox"/>	<input type="checkbox"/> 1 st	<input type="checkbox"/> 1 st	<input type="checkbox"/> 1 st	<input type="checkbox"/> 1 st	<input type="checkbox"/> 1 st	<input type="checkbox"/> 1 st	<input type="checkbox"/> 1 st	<input type="checkbox"/> 1 st	
	<input type="checkbox"/>	<input type="checkbox"/> 2 nd	<input type="checkbox"/> 2 nd	<input type="checkbox"/> 2 nd	<input type="checkbox"/> 2 nd	<input type="checkbox"/> 2 nd	<input type="checkbox"/> 2 nd	<input type="checkbox"/> 2 nd	<input type="checkbox"/> 2 nd	
	<input type="checkbox"/>	<input type="checkbox"/> 3 rd	<input type="checkbox"/> 3 rd	<input type="checkbox"/> 3 rd	<input type="checkbox"/> 3 rd	<input type="checkbox"/> 3 rd	<input type="checkbox"/> 3 rd	<input type="checkbox"/> 3 rd	<input type="checkbox"/> 3 rd	
	<input type="checkbox"/>	<input type="checkbox"/> 4 th	<input type="checkbox"/> 4 th	<input type="checkbox"/> 4 th	<input type="checkbox"/> 4 th	<input type="checkbox"/> 4 th	<input type="checkbox"/> 4 th	<input type="checkbox"/> 4 th	<input type="checkbox"/> 4 th	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Suggested range for 3 consec. readings or note Permit/State requirements: +/- 0.2 +/- 3% -- +/- 10% +/- 25 mV Stabilize</i>										
<i>Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.</i>										
FIELD DATA	SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (μ mhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____		
	01/13/11	7.92						Units		
<i>Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.</i>										
FIELD COMMENTS	Sample Appearance: Light reddish brown		Odor: None		Color: Reddish brown		Other: _____			
	Weather Conditions (required daily, or as conditions change):		Direction/Speed: 10 mph NE		Outlook: clear		Precipitation: Y or N			
<i>Specific Comments (including purge/well volume calculations if required):</i>										
<i>Collected grab sample 200 ft west of ocean outlet along shoreline at 1745</i>										
<i>I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):</i>										
01/13/11	Dete Laplace		Tobias Koehler		Signature		AECOM			
01/13/11	Name		Signature		Date		AECOM			
<i>DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy</i>										
<i>Page 107 of 110 01/21/2011 TAL-8029WM (0108)</i>										

WMH003596

FIELD INFORMATION FORM



Site Name:	WGSL	This Waste Management Field Information Form is Required This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).
Site No.:	Sample Point: Ocean East	Laboratory Use Only/Lab ID: _____
	Sample ID: _____	

PURGE INFO												
	PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED						
Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.												
PURGE/SAMPLE EQUIPMENT	Purging and Sampling Equipment ... Dedicated: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N			Filter Device: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N 0.45 μ or _____ μ (circle or fill in)			A-In-line Disposable C-Vacuum					
	Purging Device <input checked="" type="checkbox"/> A-Submersible Pump D-Bailey			Filter Type: _____			B-Pressure X-Other: _____					
	Sampling Device <input checked="" type="checkbox"/> F-B-Peristaltic Pump E-Piston Pump <input checked="" type="checkbox"/> C-QED Bladder Pump F-Dipper/Bottle			Sample Tube Type: <input checked="" type="checkbox"/>			A-Teflon C-PVC X-Other: _____					
X-Other: _____						B-Stainless Steel D-Polypropylene						
WELL DATA	Well Elevation (at TOC)	Depth to Water (DTW) (ft/msl) (from TOC)						Groundwater Elevation (site datum, from TOC)				
	Total Well Depth (from TOC)	Stick Up (from ground elevation)						Casing ID (in)	Casing Material			
Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.												
STABILIZATION DATA (Optional)	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (μ mhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)			
	1 st	1 st	1 st	1 st	1 st	1 st	1 st	1 st	1 st			
	2 nd	2 nd	2 nd	2 nd	2 nd	2 nd	2 nd	2 nd	2 nd			
	3 rd	3 rd	3 rd	3 rd	3 rd	3 rd	3 rd	3 rd	3 rd			
	4 th	4 th	4 th	4 th	4 th	4 th	4 th	4 th	4 th			
	5 th	5 th	5 th	5 th	5 th	5 th	5 th	5 th	5 th			
	6 th	6 th	6 th	6 th	6 th	6 th	6 th	6 th	6 th			
	7 th	7 th	7 th	7 th	7 th	7 th	7 th	7 th	7 th			
	8 th	8 th	8 th	8 th	8 th	8 th	8 th	8 th	8 th			
	9 th	9 th	9 th	9 th	9 th	9 th	9 th	9 th	9 th			
	10 th	10 th	10 th	10 th	10 th	10 th	10 th	10 th	10 th			
	11 th	11 th	11 th	11 th	11 th	11 th	11 th	11 th	11 th			
12 th	12 th	12 th	12 th	12 th	12 th	12 th	12 th	12 th				
Suggested range for 3 consec. readings or note Permit/State requirements: +/- 0.2 +/- 3% -- -- +/- 10% +/- 25 mV Stabilize												
Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.												
FIELD DATA	SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (μ mhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____				
	01/13/11	8.06										
Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site).												
Sample Appearance: Light reddish brown Odor: None Color: L- Reddish Other: _____												
Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 mph NE Outlook: Clear Precipitation: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N												
Specific Comments (including purge/well volume calculations if required): Collected grab sample 200 ft east of ocean outlet along shore line at 1800												
I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):												
Date	Name	Signature			Signature			Signature			Company	
01/13/11	Pete Laplace	_____ Tobias Koehler			_____ S. J. Lee			_____ AECOM			AECOM	
01/13/11												
DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy												
Page 108 OF 110												
01/21/2011 TAL-8029WM (0108)												

WMH003597

Login Sample Receipt Check List

Client: Waste Management

Job Number: 280-11648-1

Login Number: 11648

List Source: TestAmerica Denver

Creator: Bindel, Aaron M

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	9.2, 9.7, 7.9, 7.7, 8.1
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	NO TESTS ON COC
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	